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THIRD BIENNIAL REPORT

OF THE

COMMISSIONER

OF

AGRICULTURE AND LABOR

TO THE

GOVERNOR OF NORTH DAKOTA,

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FOR THE

TWO YEARS ENDING JUNE 30, 1894.

JAMESTOWN, N. D.:
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LETTER OF TRANSMITTAL.

STATE OF NORTH DAKOTA,
DEPARTMENT OF AGRICULTURE AND LABOR.
Bismarck, November 15, 1894.

To HIS EXCELLENCY, E. C. D. SHORTRIDGE,
Governor of the State of North Dakota.

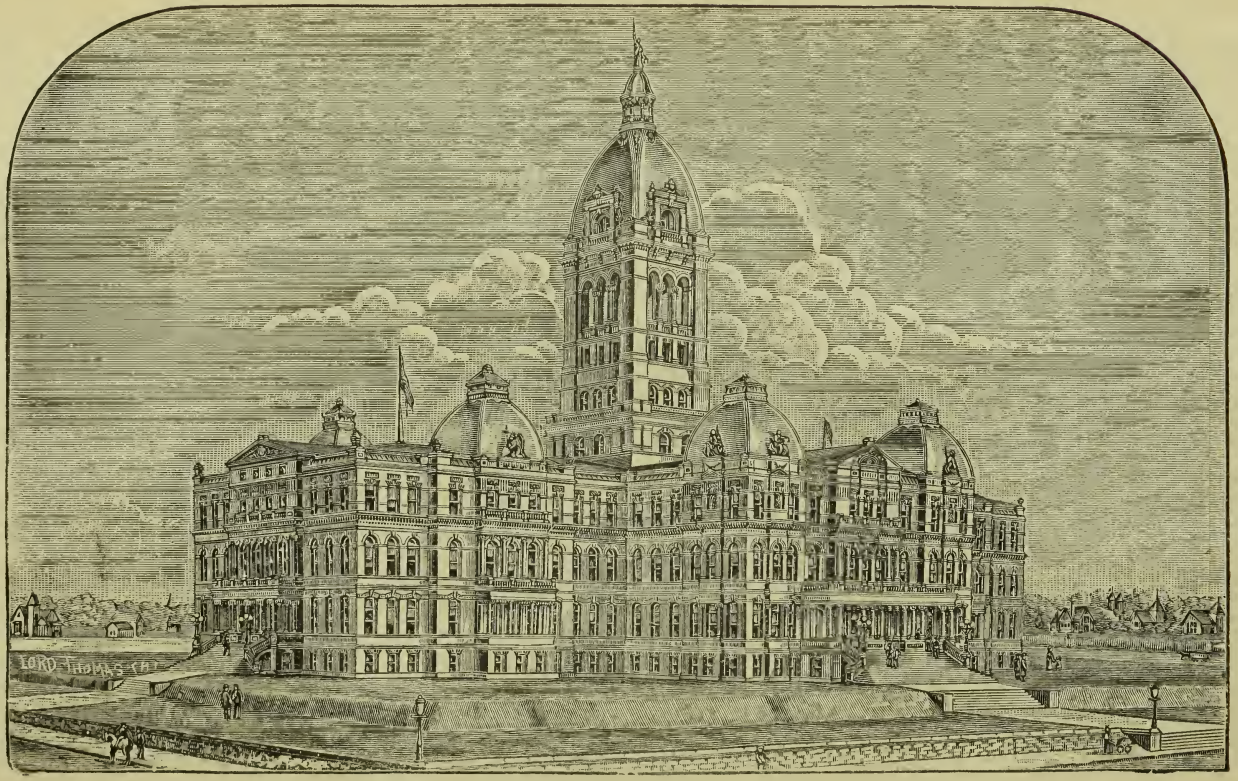
SIR:—I have the honor to submit herewith, in compliance with the laws of this state, the Third Biennial Report of this Department, covering the period from November 1, 1892, till June 30, 1894, inclusive—the last session of the Legislature having changed the ending of the fiscal year from October 31 to June 30.

Very respectfully,

NELSON WILLIAMS,

Commissioner of Agriculture and Labor and Ex-Officio State Statistician.

B 4602



STATE CAPITOL, BISMARCK, NORTH DAKOTA.

INTRODUCTORY.

Tables of figures are often on their face misleading, and need to be examined in connection with the conditions and circumstances under which the data on which they are based have been collected. Concrete results, to be shown at a glance, are what the public wants, but the public generally does not understand nor interest itself in the difficulties to be overcome in reaching and stating those results in such a manner that no erroneous impressions will be conveyed.

As intimated by another, the general public would not expect to take up a comprehensive work on chemistry or algebra and be able to open at the middle or end and find a concrete statement in a few words that would cover clearly all that the book contains and be understood by one unfamiliar with chemistry or algebra; yet, the public does demand something akin to this in the matter of statistics—and every statistician knows, as every chemist or mathematician would know, that it is a demand very difficult or impossible to satisfy. The lesson is that generalizations and conclusions should not be too hastily drawn from tables of statistics, and that the text accompanying the tables should always be carefully read.

If it were possible for the statistician to collect the information himself on which his tables are based, to obtain complete answers to all his questions, that nobody would misunderstand or misconstrue what is asked, and that the information given would be for conditions in all cases similar, it would be very much easier to arrive at satisfactory and tangible results. But information must necessarily be used that has been collected in all manners of ways, by people and from people that frequently do not understand the subject under investigation nor how to procure reliable data on any subject. Errors arising from such causes must be detected, and if possible application made to the original sources of information for corrections or explanations. And even then most people unaccustomed to statistical work would be amazed at the number of misunderstandings or misconstructions placed upon the questions or the instructions accompanying them. One of the most experienced statisticians of the East has said: "It seems easy to ask questions, and it seems strange that persons receiving schedules by mail do not fill them out properly and promptly and return them when requested. When applied practically it becomes hard to ask even the simplest question and secure uniform and correct answers.

People show absolute genius in misunderstanding questions." The experienced statistician will, of course, be able to obviate much of this difficulty by learning how to so frame his questions as to reduce the misconstructions to a minimum. But in a majority of cases the needed experience will hardly be acquired before the statistician gives place to a new man who has to learn the same processes over again. In this way a large part of the statistical work in the United States, and especially in the West, falls short of the merit that might be attained under more favorable circumstances.

The conditions under which information is gathered in one locality may differ so materially from those prevailing in another, or for one year or series of years from those of another year or series of years, that comparisons are often unsafe unless these differences in conditions or circumstances are taken into account.

Health and criminal statistics are often used to prove superior attractions claimed by this or that locality, when in fact the differences shown are due to greater or less vigilance in collecting data regarding health or deaths, and to differences in the rigidness with which laws are enforced. Often, too, the laws themselves of the different States are so far from uniform as to destroy the value of statistics in certain lines. For instances, one State makes nearly twice as many offences punishable under its laws as another State; one State punishes a certain offence by imprisonment in jail or in the penitentiary, while another State punishes the same offence by a small fine; that is, a considerable class of crimes or misdemeanors in one State would not be crimes or misdemeanors at all if committed in another State, or the degree of a certain crime in one would be altogether different if committed in another. Statistics based on such questions are worthless unless the differences in the circumstances are clearly shown.

What has just been said with reference to the different States is to a certain extent true of the different sections, counties, townships, cities and villages of the same State. In the table on Township Finances, in this volume, some townships have issued bonds for purchasing seed wheat for needy farmers, and hold the notes and security of the farmers therefor, so that this portion of indebtedness does not properly belong with the obligations of the township. Some portions of the county indebtedness is of the same character. The debts of some of the cities include cost of paving, sewer and water pipes, etc., which are to be paid for by special taxes levied on abutting property; and although such indebtedness was asked to be returned separately, it was not always done.

The fact that a portion of the expenses of township, city, county, and in some cases State and National government is paid by fees, of which no return is made, or at best an unsatisfactory return,

would render more or less unreliable tables showing by comparison the expenses of county, municipal or other government from year to year, or of different counties or municipalities for the same year.

The escape from taxation by fraudulent evasion of large portions of personal property renders of uncertain value tables showing the amounts of this species of property per capita for different localities or different years.

Regarding the difficulties of securing accuracy in agricultural statistics, United States Labor Commissioner Wright, now Acting Superintendent of the Eleventh Census, says:

> If the census taker is annoyed, aggravated, and often dissatisfied with the results of his work under the enumeration of the population, he becomes completely discouraged at times when he undertakes to get at the facts relating to production, and yet he is expected to so present the facts that careful deductions may be drawn from his statements. The statistics of agriculture, as shown by censuses, can only be taken as the most careful estimates that can be made, because the total results are arrived at from the individual results of estimates made by the farmers themselves. It is very rare, indeed, that a farmer is found who keeps books of account. He does not know, as a rule, in the first place, how many acres he has in his farm. If he knows this primal feature of agricultural statistics, he more rarely knows the number of acres of woodland, of pasturage, of each crop under cultivation, etc. It takes a series of socratic questionings to bring out even a fair guess as to each of the points involved in agricultural statistics, and when this is taken in connection with the other fact, that the enumerator is paid but a few cents for securing the information, the looseness of agricultural statistics can easily be judged. Notwithstanding these things, the enumeration is the best that can be had, and the results the only ones that can be secured. This is a vast country, and to collect from each individual farmer, whether he owns or rents his farm, exact information as to his year's business, is an undertaking so stupendous and so costly that it is not strange that the results are not perfectly scientific. They are valuable as showing the general progress of the great foundation industry of the land; they help us to offer an opinion as to the consolidatlon of farms, the acreage of great crops, and many other valuable facts, but they should be considered just what they are, carefully made estimates by individuals upon this subject, rather than concrete statements of exact facts.

In this State the only method available for collecting agricultural statistics is to take advantage of the time when the assessors make their rounds to assess property, for purposes of taxation, supplying them with blanks and asking them to gather statistics as to the acreage and yield of crops, and such other work as it may be supposed the assessors can be burdened with without rebellion on their part. It is true, the law requires them to collect such information, but they do not obtain extra pay for it, except as the per diem may possibly be affected by the extra time required to secure answers to several additional questions—and even in this their pay is sometimes curtailed by the town or county boards. While there are penalties prescribed for failure in the performance of this duty, the machinery is such that no one can enforce them effectively. The assessors do not make re-

turns to the State Statistician, but to the County Auditor—who is another official burdened with this kind of work without extra compensation, and who is generally more interested in making friends among the assessors with a view to his own re-election than in incurring their hostility which any attempt to enforce the law regarding statistics would probably entail. The State Statistican does not know who of the assessors fail in their duty, except in the rare instances reported by a few of the Auditors. At the same time it would hardly be good policy to use harsh means in enforcing this feature of the law were it possible to do so, as so much depends in statistical work upon the good will of the people, that so long as the present system of collecting information through the assessors is retained, it is perhaps best to rely very largely on persuasion rather than to incur their displeasure by a resort to harsh measures.

It may be said that the law in this state could hardly be more clumsy or unsatisfactory. The agricultural statistics pass through the hands of two separate sets of officers, from whom very careful and painstaking work is supposed to be required without pay, before reaching the State Statistican. There is, and under the present system can be, no adequate checking up the work of those that gather the information, no testing its accuracy. The State Statistician is without resource for securing efficiency or faithfulness, except so far as his persuasive powers in print may go—a weapon which in these times of practical, calculating selfishness is not very effective.

These agricultural statistics, as all other statistical reports, should always be made direct to the office having such work in charge, and by the person that collects the information. This will establish responsibility, and where errors and inconsistencies occur, and they do occur very often, it will enable them to be traced and corrected. Under the present system the assessors are required to foot up their own returns, and probably not half of them are footed correctly, and in some counties not at all; in the latter cases the auditors perform that part of the work—and doubtless correctly; but where the footing is done by the assessors the work is seldom tested and the errors made by them are probably, in most cases, returned to this office as a part of the county reports, where there is no chance to detect errors unless they are so great as to render the result ridiculous.

The pay for collecting statistics should be made contingent upon the proper performance of the duty, and no accounts should be approved or paid until the work is examined and all omissions and corrections made good. This would require that the payment for such services should be made by the State, instead of by counties and townships, and only on certificate of the State Statistician that the work had been properly done. At present

the assessors are allowed their pay by the township or county board, as the case may be, long before the returns are made to the State Statistician, and often the boards are indifferent to the collection of statistics, and sometimes hostile.

People are often loath to give information to an assessor which they would willingly furnish to one that they felt sure had no connection with taxation. Others, it is to be regretted, decline to answer questions on the ground that they imagine statistics to be mainly for the benefit of speculators and used by them to the detriment of the farmer himself. In this connection it is ventured to reproduce here a paragraph from the Special Report of this Department for 1893:

There is abroad in the Northwest a certain prejudice against the publication of agricultural statistics, under the impression that the information so published is used by speculators to the detriment of the farming classes. This theory is entirely built upon a false premise. The speculative element is not dependent upon official publications for its information, and often disputes their accuracy. The various boards of trade, millers associations, elevator companies, etc., have agents of their own throughout the country, and receive promptly as reliable information as the statistician can obtain. The official reports can therefore be of no particular service to these associations, except by way of corroboration, for they already possess the same information, which is in most cases withheld from the public and used for the exclusive benefit of the parties that have collected it. Should official crop statistics cease to be published, these speculative agencies would have exclusive information on the subject. The farmer and small dealer and shipper would be in the dark, while the speculators would possess a knowledge that would make them complete masters of the situation; and does anyone suppose they would hesitate to use it to further their own interests, and to take advantage of the farmer and small dealer? The real interests of the farmers demand not only a continuance of the publication of statistics as to crops, by both State and National Governments, but that their greater frequency and greater reliability be constantly sought—to the end that the farmer and small dealer may have an equal chance with the monopolist and speculator. By means of such reports, published as frequently as may be required, the intelligent farmer may be practically as well informed as the board of trade operator, and may use his knowledge to his own advantage in marketing his produce. Again, every well informed person knows that uncertainty is the greatest disturber of markets, and breeds more speculation than any or all other agencies combined; and it also does more to depress prices and demoralize markets than any known case of over-production. If, in the absence of any official reports, a combination of speculators wish to inflate prices so as to unload, it is necessary only to promulgate through some unsuspected agency a report of a short crop in some distant region, and their purpose is accomplished; while the reaction that follows leaves legitimate dealers as well as farmers uncertain, timid and distrustful of any information about markets. Should the object of the speculators be to depress markets unnaturally, to enable them to buy up the products of the country at only a fraction of their value, by the dissemination of alleged news of a great surplus in Europe or India, their purpose is again accomplished. In either case nobody possesses or can obtain any reliable information to disprove the current reports till they have done their work. The remedy for such evils is full and complete information, which shall be trustworthy and obtainable by everybody.

It may, possibly, be unnecessary to collect agricultural statistics annually, though it certainly is desirable. It would be better, however, to collect them biennially and do the work as accurately as possible than annually in a superficial manner and with unreliable results.

Selections of persons for collecting statistics should be made from those who intelligently comprehend the work and appreciate its importance, and who are able to effectively answer objections that people may urge against giving information, explain misunderstandings, and possess resources for securing information from the indifferent or unwilling. The collector of this information must also be quick to detect errors or inconsistencies, and be himself familiar with the work or business concerning which he asks information. Under the present system the assessor is as likely as not to be one of the least fitted men in the township for such work, and may be both incompetent and indifferent. The gathering of information for statistics as well as its presentation in the form of reports, requires painstaking care and efficiency, and the best talent available should be utilized.

Some matters which properly belong with the work of this office, and which from time to time need investigation, require dealing with females, and on subjects which render it highly desirable that females be employed to procure the information—such, for example, as female employments, and the condition, treatment and needs of female employes.

The present law requires the collection of statistics regarding mortgage indebtedness, but no facilities whatever are furnished to enable a compliance with the mandate. Such a class of statistics would be exceedingly valuable, could they be secured in such a manner as to leave no doubt as to their reliability. The only way would be to obtain the information from the registers of deeds of the different counties, but there is no law requiring such matter to be furnished by the registers, and no money under the control of the Commissioner to pay for such services. The registers of some counties offered to furnish such information free of charge during their terms of office, while others could not for want of time and sufficient clerk hire. Inasmuch as such an undertaking to be valuable would need to be carried on for a series of years, and ought to include all counties; and as the registers of deeds who might volunteer the information this year would in some cases be out of office next year, and their successors might not possess sufficient public spirit to induce them to do the work without pay, it was thought best not to undertake it.

If the Legislature desires that such an investigation be made in this State, some legislation will be necessary—such as requiring reports from the registers of deeds, probably monthly; and to secure thoroughness and reliability in such reports, some compen-

sation should be provided, its payment being made by the State and conditioned upon the reports being satisfactory. Fair compensation to all the registers of deeds in the State for such reports monthly would probably aggregate nearly $2,000 per annum. These reports from the registers of deeds should show the number of mortgages recorded, the amount of the debt, the time to run, the rate of interest, the number of acres or lots covered, and the assessed value of the same acres or lots; also, full information relative to releases or satisfactions, foreclosures, and redemptions. A similar line of information relative to chattel mortgages would also be valuable.

In addition to the information already mentioned much value would be added to the mortgage statistics were provision made for ascertaining the reason for creating the debt—whether to pay other or previous indebtedness, to pay the purchase price of the same or other real estate, to make improvements, to raise money for other business ventures, etc. Indeed many consider that this last line of information is one of the most vital parts of statistics relating to mortgage indebtedness.

Whatever is undertaken in this line should be carried out thoroughly and impartially, and for a series of years, or else the labor and expense will be largely lost. Better to pursue a line of work persistently and do the work thoroughly and carefully, so as to make the results an authority which will be indisputable, than to waste time and money doing a little at everything and making thorough work of nothing, and with results that cannot be depended upon. Especially such work as mortgage statistics should be begun wisely and handled with great care. The law governing it should be drawn by experts, and the blanks and instructions prepared by competent hands.

Some provision should be made for defraying the expense of the Commissioner while in attendance at meetings of National Associations of similar officers for all the states, and for defraying North Dakota's proportion of the expense of publishing the proceedings of such meetings. The next National meeting of Labor Commissioners and Statisticians takes place at Minneapolis next season—the first time it has been held in the Northwest—and North Dakota should be represented.

The question of free public employment officers, to take the place of private employment agencies, which are generally simply swindling concerns, is one of some importance, though less so in this State than where large numbers of laborers are found. Still it might be a means of aiding farmers to secure help in busy times, as well as material assistance to laborers in securing employment.

A small increase in the appropriation for clerk hire would add very much to the effective work that could be done by this office. It does not pay to require either the Commissioner or his chief

clerk to spend large portions of their time at such work as addressing circulars, manipulating the typewriter, etc., work which can be as well done by others at half the salary, while there is ample work requiring skill and intelligence which must now be omitted. Considerable labor, perhaps sufficient to keep one clerk busy for a year at least, is needed in the way of indexing reports of the various States and the National Government so as to render available and useful the work done by other States. A proper indexing would show at a glance all that the office library contains on a given subject, and where it could be found, and thus avoid the waste of time required to search through many volumes for any subject concerning which information is needed. The list of names of farmers and of other industries which the office contains also badly needs revising and arranging by something like the card index system. All this work has accumulated and been left undone for want of sufficient clerical force.

There is also plenty of material at hand in the different State offices, in county offices, and elsewhere, bearing on such subjects as taxation, values, public expenditures, etc., which can be utilized whenever time and opportunity are afforded.

The law requires a report from this office regarding the number, condition and nature of the employment of the inmates of the State prison, county jails and reformatory institutions, and to what extent their employment comes in competition with the labor of mechanics, artisans and laborers outside of these institutions. There are no reformatory institutions in the State at present, and inmates of county jails are not generally employed at all. The Commissioner made due application to the Warden of the State Penitentiary for the information required by the law in question, but has received no reply and is therefore not in a position to report thereon.

SIRE CERTIFICATES.

Under the provisions of Chapter 117, Laws of 1891, certificates have been issued for 553 sires from the date of assuming charge of the office by the present Commissioner on January 5, 1893, till the close of the last fiscal year, June 30, 1894. During that period there was received for fees for certificates a total of $998, which is accounted for as follows:

Total receipts	$ 998 00

DISBURSEMENTS.

Paid for Additional Clerk Hire	$ 627 25	
Returned to owners (overpaid fees, etc.)	45 90	
Paid into State Treasury	324 85	
Total		$ 998 00

A little in addition has been received since the close of the fiscal year, which will be duly accounted for at the close of the official term.

It is thought best to call the attention of the Legislature to the indefinite features of the law, which render it unsatisfactory alike to the stock men and to this office. The law gives no hint as to how long these certificates hold good, nor as to whether they are of any value for securing liens for service rendered prior to their date; nor yet as to how owners of sires shall proceed who travel their animals and have no regular stopping place.

With regard to the first point, the two Attorneys-General since the enactment of the law have held diametrically opposite opinions, and each Commissioner naturally follows the advice of his own legal advisor, or Attorney-General. The indefiniteness of the law is liable to lead some citizen or citizens into expensive litigation, which the Legislature can prevent by the enactment of a few clearly worded lines regarding the doubtful points.

THE DAIRY INDUSTRY.

The Commissioner of Agriculture and Labor is ex-Officio State Dairy Commissioner, so that this subject properly comes under his jurisdiction. There is also in the State a State Dairymen's Association, the first annual meeting of which was held at Grand Forks in June, 1891, and the proceedings published in pamphlet form by the former Commissioner. The first meeting was a very successful one, and much interest was manifested by the farmers and dairymen in attendance; but for reasons which have seemed imperative no meetings of the Association have been held since, and no work has been done by the State to advance this industry.

For reasons given later in this chapter, the industry greatly declined during the next two or three years, nearly all of the creameries and several of the cheese factories in the State suspending business. During the past year there has seemed to be a slight revival—additional interest being shown and a few new plants being put in operation, or old ones resumed business.

During last winter the Commissioner sought the opinions of the leading men of the State who had been engaged in the business, or were thought to be especially conversant with the subject, as to the causes which led to the decline in the business and the suspension of nearly all the plants engaged in it. As these replies, from the men having practical experience in the State or from close observation, and one of them from no less eminent an authority on the subject than ex-Governor Hoard of Wisconsin, discuss the subject in a comprehensive manner, it is deemed best to publish them in full, with the remark that the time will certainly come when North Dakota will be a leading dairy State. The letters from residents of this State are published with the names and addresses of the writers only in cases where specific permission has been given to use the names—the others being published without naming the authors.

The circular of inquiry which was sent out was as follows:

STATE OF NORTH DAKOTA,

DEPARTMENT OF AGRICULTURE AND LABOR.

BISMARCK, January 16, 1894.

DEAR SIR:—In view of the fact that a large number of the creameries and cheese factories of the State have gone out of business during the past two or three years, I have thought best to ask an expression from those that are

or have been engaged in the business, or who may seem to be especially well informed on the subject, as to the cause of the decline in this business. A number of such establishments on being interrogated about it have said they closed for want of custom—usually for want of cows, milk or cream. I should like to ask what cause is back of this? Why cannot enough cows, milk or cream be had? Are the prices paid by the creameries too low to satisfy the farmers? Or are farmers too deeply engrossed in wheat raising or other business to give proper attention to their cows? I should be glad to receive a full discussion of the question from you, and your opinion as to the prospect for a remedy of the causes, whatever they may be, of the decline in the business. It would seem that with our cheap pasturage and the condensed form of the product—so as to avoid the heavy freight charges incident to shipping grain or live stock, the business of butter and cheese making ought to pay in this State.

My object in asking these questions is to collect information which shall form a basis for the discussion of the question in the next biennial report of this office.

Very respectfully,

NELSON WILLIAMS,
Commissioner.

HOARD'S DAIRYMAN.
Editorial Rooms.

FORT ATKINSON, Wis., March 23, 1894.

Hon. Nelson Williams, Bismarck, N. D.:

DEAR SIR—I am in receipt of your esteemed favor of January 16, in which you ask my opinion concerning the cause of declension on the part of the creameries and cheese factories in your State in the past two or three years. I think that cause can be stated in a very short space, in a few words, and it is this: The lack of sufficient cow population within a given area of territory. It is a well known economic fact that milk cannot be transported to milk-gathering creameries and cheese factories safely and profitably, more than three or four miles in any direction from the central plant. The heat of summer, etc., you will see, makes this readily apparent. Moreover, another feature steps in. There must be sufficient number of cows, producing a sufficient amount of milk or cream within such given territory, to make the business profitable to both the creamery proprietor and the farmer. No creamery proprietor can afford to be to the expense of running a creamery on less than 5,000 pounds of milk a day or less than two or three hundred pounds of butter in a gathered cream creamery. There must be business enough to pay all necessary expenses out of the profits of the business, and leave a fair margin. Your State is sparsely settled, long distances and few farms. More than this. small herds of cows wherever the farms exist. Now, this has always been true of new countries, and you ask in your circular for the cause that is back of it. I do not think that you could expect anything else, for dairying, as a rule, is the product of more highly organized agricultural communities. People that settle Dakota are poor. With them it is a necessity to get ready cash, and as quickly as possible, and consequently a business which calls for longer expenditure of labor and time, like the dairy business, cannot be expected in such communities. I have never had, to tell the truth, any faith whatever in the promotion of dairy industries to very large extent in either of the Dakotas, or the newer portions of any other of the States.

You ask if the farmers are too deeply engrossed in wheat raising or other business to give proper attention to their cows? I think not, providing that proper attention would bring the amount of money, and as quickly according to their necessity, as wheat raising. I have seen this State evolute from the crude conditions of wheat farming, like your own, up to the successful and

highly profitable condition of dairy farming. The latter, of course, conserved all the wastes that the first produced incident to the deterioration of the soil, etc. This, in short, is my judgment as to the reason for the suspension of factories in your State. I find the same fact exists in all other States and Territories where the cow population is insufficient, and where the farmer himself has no dairy judgment or education. The dairy interest is as much a creature of *habitat* as the canvas back duck. It goes where it can find food and support, and will not go where these are denied. If forced, both will leave at the first opportunity.

Trusting that this may be satisfactory, I remain

Yours very truly,

W. D. HOARD.

In addition to the foregoing, permit me to say that natural advantages, like good grass, quality in the soil, good water and salubrious climate, do not seem to govern. All these Wisconsin had for years, but it seemed almost impossible for fifteen years to get her farmers to give the dairy question any serious thought.

Hon. Nelson Williams, Bismarck, N. D.:

In reply to your favor stating the fact that many of the creameries and cheese factories have gone out of business during the past two or three years, and asking my opinion as to the causes of the decline in the industry, I have to say that in my opinion one cause is that a number of these factories were started before people were ready for them, and are the results of active work by the smooth-tongued agents of manufacturers of dairy appliances anxious to make sales, without regard to the future of the parties that were induced to buy their wares. Numbers of these factories were started on the co-operative or stock plan, and the originators had in view simply the sale of the material and appliances. Many of them were built in localities where there were not enough cows to supply the necessary milk and cream, and for want of proper management and continued effort to create and simulate an interest in the industry the stock of dairy cows was not increased, and necessarily the factories had to close for the want of businsss.

You ask why there cannot be enough milk or cream, or cows to produce the product necessary to keep these factories going? In reply, reversing your order of questions, I would say the first necessity is the cow, and a good cow at that—not necessarily, however, an expensive, pure-bred animal,—otherwise milk and cream will be lacking. A good cow cannot be secured without money Farmers, as a rule, in most of the localities where there have been creameries, or where they wish to establish them, are too poor to buy an additional number of cows to what they now have, and as a rule have barely sufficient in number to supply their own wants. At the present price of wheat a good cow will cost about the price of eighty to ninety bushels of wheat—that is from thirty to forty dollars, and very few farmers have surplus wheat enough to stock much of a dairy. At present our farmers are a good deal in the condition that the Iowa farmers were in at the time when the price of corn was below the cost of production, and the advice was to buy hogs and feed the corn, the same as the farmers are now advised to buy hogs and feed their wheat; the difficulty was that after selling corn enough to purchase the hogs, they had no corn left with which to feed them, practically in the same condition that our Irish friend was in when advised to buy a trunk for the purpose of putting in his clothing. His objection was that—"it was a very good thing for the clothes, but if his clothes were in the trunk he would have to go naked."

Now the general proposition that our cheap pasturage makes cheap feed, and enables us to compete with the older farming communities in dairy products is a correct one in regard to summer dairying, yet we must not lose sight of the fact that the greatest profit is derived from the winter product of the dairy, and that we have long winters requiring a good deal of hay, as

well as other food; for to secure a profitable supply of dairy product liberal rations are necessary. The best of shelter is also an essential, and farmers should not undertake this business without careful investigation and preparation in advance, for it means the erection of warm barns, the outlay for good dairy stock and all the conveniences necessary for its best care, otherwise failure will be the result. I might also enlarge upon the necessity of practical knowledge in the care of stock, and production of dairy product, but this I think will suggest itself to any one without going into any discussion on that particular phase of the subject. There is no doubt in my mind that with proper stock, proper care and modern conveniences, farmers of North Dakota can make dairying as profitable as it is in any other agricultural State, but we cannot do that with poor stock, insufficient feed and no conveniences.

A great deal of space could be taken in discussing the various phases of these questions, and in enlarging upon the reasons why the business has been a failure in some localities, what can be done to make it a success, etc., but I think it can after all be summed up in a few words: i. e, the principal cause of failure being a lack of sufficient number of good dairy cows in the immediate vicinity of the factory. In localities where there have been sufficient numbers of good dairy cows to supply the factories, failure is a rare exception, and when not successful the cause is generally traceable to bad management at the factory.

J. B. POWER,
President State Agricultural College.

Hon. Nelson Williams. Bismarck, N. D.:

Several causes have tended to prevent dairying from becoming a success in this State:

Lack of experience in managing factories.

In many instances the plant cost twice or three times its real value—brought about by designing agents of creamery houses who pretended to be working for the interest of the community when in fact they were not.

A lack of knowledge on the part of the patrons as to how to conduct the dairy industry.

The one-crop idea—wheat—that is fast depleting the fertility of our soil, but will soon force the farmers into other lines of agriculture of which dairying will be an important one.

A lack of proper laws for regulating and controlling the sale of oleomargarine.

The lack of proper organization in a dairy association to educate the farmers to better methods.

The above are, I believe, some of the causes for failure in this State. There is no reason why North Dakota should not become one of the leading dairy States of the Northwest, and I believe she will in the near future. With an abundance of pasturage, with all the by-products from wheat at our doors and good markets, there is no excuse for shipping wheat bran to New York and bringing back cheese. I believe we can, and should compete with all the world, and at the same time largely improve our wheat yield. We must, however, learn that methods applicable in the East are not suitable for successful dairying in North Dakota.

E. F. LADD,

[Professor Chemistry in State Agricultural College and Secretary State Dairymen's Association]

GRAND FORKS, N. D.

Hon Nelson Williams, Bismarck, N. D.:

In connection with other parties I ran a creamery here in Grand Forks for three seasons. We discontinued it because there was not enough in it to

satisfy us, although we found that it could be run without loss, and at a small profit, probably.

The conditions are peculiarly unfavorable for such a plant here, because milk and cream, closely adjacent, are worth more to the farmer to dispose of in the city for other purposes than a creamery can afford to pay. I should think a plant differently located might find much greater encouragement.

My opinion is that the principal cause for non-success of creameries throughout the State has been the eternal and everlasting idea of growing wheat As harvest approaches help becomes dearer and the farmer simply stops milking and giving attention to his dairy. When wheat-growing has ruined the farmers absolutely, and that time seems near, they may be willing to milk the cows, raise the calves, feed the pigs, and act like and be farmers.

I know but little of cheese making, but it does seem to me that in neighborhoods more or less isolated the farmers could club together and make sure money, and reasonably fast, in dairying.

I have had a small creamery on my farm for eight years, and it has always paid—and the farm pays, and is fertilized in good shape. I sell hogs, veal calves, raise steers, and do lots of such things—and hire it all done, too. I milk from fifteen to twenty cows—Jerseys, and good ones—and sell from $75 to $100 worth of butter per month, the year around.

I have another farm with some nice beef cattle always growing, a few sheep, a few colts, and more hogs—all growing—and it pays; and there, also, I hire everything done. I believe, to sum it all up, that the farmers of this State will be driven to diversify, and that soon; but, I doubt as a rule if they can be convinced of its importance only by dire necessity.

Another trouble has been the plants have cost too much money. Many were built by contract by the Davis-Rankin Co., of Chicago. Their plan of building is a rank humbug, and costs just twice what is necessary.

The farmers to go into dairying right must arrange to milk all winter. Winter butter pays. And to do so they must have proper food, and cure it properly for winter feeding. Our Agricultaral College at Fargo ought to experiment and show the way, not alone in this, but in feeding beef cattle, mutton sheep, etc, and let the farmer know which way pays best, and is most feasible for him in his surroundings.

Very respectfully,
E. M. Prouty.

Grand Forks, N. D.

Hon. Nelson Williams, Bismarck, N. D.:

For the past eight years I have been in the dairy business—milking about fifty cows and selling the milk in the city of Grand Forks. I am not prepared to give an opinion founded upon experience touching the decline and failure of the butter and cheese factories. I was asked to take stock in the one organized at Grand Forks several years ago, but declined, and gave as my reason that the number of cows to be found in the neighborhood was by far too small, and the expense of gathering the cream over so large a territory as would have to be covered would be too great. My judgment proved correct. The two reasons given above, and the one suggested by you, that our farmers have for various reasons failed to make an honest or persistent effort to build up the dairy industry, are the causes of the decline.

I believe the time has come. Our farmers must take up in dead earnest this dairy industry to save themselves from bankruptcy and ruin. I believe I have demonstrated, beyond reasonable doubt, that we can produce ample feed, and of the best quality, for dairy purposes. I have raised for four years last past an increasing crop of corn—75 acres the past year—and I will plant 100 acres in 1894. From the best information I can get, I produce my milk as cheaply as in any of the now successful dairy sections of the United States.

There is no good reason why North Dakota cannot successfully compete with any of her sis'er States in this industry.

I believe that a large per cent. of our farmers now believe that to continue to exhaust their farms in raising wheat to feed the paupers of Europe, at pauper prices, in competition with the pauper labor of India, Russia, Australia and South America, is the height of folly and can only end in ruin. And too much cannot be done by your Department in educating our farmers to the necessity of abandoning the ruinous policy of so much wheat growing.

Every cheese and butter factory that I know of was organized by some sharp, shrewd agent of some manufacturer of dairy machinery. They were not the natural outgrowth of a growing industry. The result has been injurious and discouraging.

L. F. Dow.

Under date of October 27, 1894, Mr. Dow adds:—I am more thoroughly convinced than ever that North Dakota farmers must look to the cow and the hog to lift their mortgages. I raised 80 acres of corn this year—good crop, and it matured I am converting it into butter and pork—butter at 25 cents per pound and pork at $4 50 per hundred weight. I seeded 75 acres of corn stubble to wheat in May—drilling in the wheat on the stubble without previous plowing or cultivation, and dragging the stubble three times after drilling. I had 30 bushels per acre, No. 1 hard, and no smut, and weighing 61 pounds per bushel. My neighbors had from 14 to 20 bushels per acre. I shall plant not less than 100 acres of corn next year, and expect to turn off 100 hogs.

Grand Forks, N. D., Jan. 23, 1894.

Hon. Nelson Williams, Bismarck, N. D.:

Dear Sir: While I am in the dairy business, I was interested in a creamery that was in operation here. My other duties are such that I have not given the matters that you inquire about very much attention. I know very well why our creamery did not succeed. A creamery expects a little pay for their work. Very many of our farmers think that it is cheaper and more economical to have their wives do it for nothing, than to pay the creamery for doing it. But other reasons for the failure of this creamery, were these: In the first place, we invested $5,500 in the business, when $2,000 would have been ample; in the second place, we undertook to gather cream from distances twenty miles away; third, the parties who had capital enough to make it a paying business, as Mr. Prouty and Mr. Brooks and Mr. Birkholz did here, that were running it, were all engaged in other business that required their attention and which they could not give up for a side issue like this. Any man with $3,000 or $4,000 could have made good interest on his money, and a clean thousand to the year, during any of the years since our creamery was built. In this vicinity the farmers direct their attention too exclusively to the growing of wheat, and claim that it is difficult to get hired help for dairy work. I have been running a dairy of from 50 to 65 cows for the last three years and have never had any difficulty in getting plenty of good help, and the dairy part of my business has been by all odds the most profitable. There is no doubt in my mind but what the average farmer in this countrywill succeed much better with a dairy of ten or twelve cows, than with exclusive wheat raising, and I am almost sure that unless there is some change in the manner of our farming, the average farmer will lose his farm. My cows make as much butter as the best dairy in Pennsylvania averages. My pasture lands are worth from six to eight dollars per acre or ten at the most. In Pennsylvania they are worth $50 or $60, and for the last four years I have sold my butter in Grand Forks for a clear average of 6 cents above the average of the best dairy in Pennsylvania.

I feel sure that with careful management. a mixed grain and dairy farming system will not only pay but will be much the best system in this country.

Very respectfully,
J. H. Bosard.

Jamestown, N. D., Jan. 18, 1894.

Hon. Nelson Williams, Bismarck, N. D.:

We closed our creamery in August, 1892, for want of cream in paying quantities. All the large dairies having disposed of their cows or, as in some instances, sent them to pasture outside the limits of the home ranch, giving as a reason almost universally, that there was not enough in the business to hire herders and milkers, and that the ordinary farm laborer always objected to milking, as it made too much early and late work. They acknowledged to me that if this objection could be overcome they should be glad to sell their cream. I do not consider that the price of cream has driven the farmers to dispose of their cows, as all the owners of a few cows—just what the family could milk and care for—were pleased with the results and anxious to patronize the creamery, as the price paid by us for the last two years we made butter was considerably more than they could have realized by selling at the stores or in any market they could have reached; and more, too, a good deal, than we ourselves could have obtained if we had put our product on the market as fast as made.

As for the remedy, in my judgment, there is none in sight at present. When great wheat fields lose their attraction and farmers learn, what they will eventually, that success lies, not in a big field of wheat, hurriedly and improperly cultivated, but in a smaller acreage well tilled and sown, not to wheat alone, but every other crop that Dakota can grow, and build comfortable barns and sheds, they will find that cows are a necessity, not alone for the profit in the cream, butter and cheese, but for the best results from farming, and then and not until then, will the creamery doors be flung wide open.

Very respectfully yours,
C. P. Smith,
Manager Riverside Creamery.

Our cheese factory continued operations for two years, and had no trouble to dispose of all its products at the market price—ten cents per pound; and the second year we could not supply the demand. But the trouble with us, in my opinion, was that our factory was located at the railroad station, and the nearest patrons to the station were two miles away, while the average distance of those who furnished milk was about three and one-half miles. The patrons claimed that it took too much of their time to bring milk to the factory, especially during seeding and harvesting. But now the low prices for all grain have brought those same men to a realization of the fact that their cows were paying much better than their farming operations; and they are now regretting that they allowed a little mortgage of $160 to take from them their cheese factory which originally cost them $1,100.

Karlopolis, N. D.

Hon. Nelson Williams, Bismarck, N. D.:

I do not feel competent to discuss intelligently the subject of cheese and butter, upon which you ask my views. The subject has fallen under my notice. but I am without experience in either creameries or cheese factories.

Three or four years ago there were several creameries some twenty-five or thirty miles from me. Some of them gathered cream of my neighbors, and some of their agents visited me to procure cream; but at the time I was mak-

ing butter for the Hospital for the Insane at Jamestown, and could not sell cream. I naturally heard something about them.

Why the creameries could not buy cream of the farmers, satisfying them and making good dividends for their stock-holders, has been something of a puzzle to me. These creameries began the season by paying good prices per guage for cream, but soon dropped to ridiculously low prices—often seven cents per guage. Apparently the persons who sold the cream could not see any sufficient reason for this great reduction, and the result was to cut off the supply of cream. Creameries went out of business, I think, under these circumstances. Farmers scolded about it a good deal. I think many felt themselves imposed upon. A shilling per guage would have bought the cream, I think; fourteen or fifteen cents would have pleased the farmers I am under the impression that a margin of five to six cents per guage would have made the cream into butter, a pound to the guage. With my limited information I do not see why the prices I have suggested could not have been paid for cream, and butter made at a cost of 17 to 21 cents per pound by the creameries. It seems to me that butter has borne prices to fully warrant extensive operations on the part of creameries.

I think that farmers have looked upon creameries as heretofore managed with distrust, and herds of cows have disappeared rather than put their milk into home-made butter. This is because their owners have thought it too much labor and trouble to make butter. I have not been one to share this notion, however. I have felt that I have not been the loser by making butter. Farmers are, if they only feel so, quite independent of creameries. They can always make their own cream into butter if they want to. I have seen dairy butter stand the test at the Hospital for the Insane when creamery butter was rejected on account of its rankness—and it was rank, too. It is my impression that creamery butter of late years is losing its prestige over dairy butter.

I do not think there are as many milch cows now in this community as there were five or six years ago. The conduct of the creameries was not, I think, such as to increase their number, and as you suggest, I do not see why there might not be enough cows where pasturage is so fine and extensive. I do not see why the cheese business could not be made to pay here.

I think the number of cows would need to be increased before starting a creamery in any locality. In this way cream and milk could be obtained if the farmers had faith in the creameries and cheese factories. Many farmers are, undoubtedly, too busy to give the necessary attention to cows; but I think many would grow into herds of cows if they could feel safe in doing so. I have been inclined to think that creameries have not been wisely managed either internally or externally.

C. A. SANFORD.

HATTON, N. D.

Hon. Nelson Williams, Bismarck, N. D.:

The creameries with us here in North Dakota are a kind of side issue. Very few attend to their cows in such a way that it can pay them; but all farmers agree that the creamery is a good thing, as it enables them to get rid of their surplus at prices they never could get for their butter. The farmers are too deeply engrossed in wheat raising, and as long as wheat raising continues anywhere near profitable there will be no change.

The prices paid here with us for cream are about the same as in Iowa—some months probably one cent less. Our creamery is co-operative, and owned by the farmers. It started April 1, 1890, and made 78,000 pounds of butter that year; in 1891, 145,000 pounds; in 1892, 85,000 pounds; in 1893, 60,000 pounds. So, you see, we have been going backward; but I look for a change, and expect an increase in 1894. There are also the high freight rates we have to pay, which hurts us to a certain extent; and the long winters that stock has to be kept inside.

The price paid by creameries owned by private parties is, as a rule, too low to encourage farmers to go into raising cows. Parties going into the creamery business of course want to make a few thousand dollars if they can and will start in a community where they have the promise of say 300 to 400 cows; and a creamery at such a place will never pay. For this state of things I blame a good deal the corporations that make a business of building and equipping creameries. They have fooled business men and farmers into building a $5,000 plant when $2,000 would have been more than enough. This is the chief cause for the failure of the business here in North Dakota.

We have within our territory probably between 1,500 and 2,000 cows; and yet we cannot run the whole year. I would recommend in every instance a co-operative creamery, and with not less than 1,000 cows; then they can make it a success.

Very respectfully,

LEWIS THOMPSON,
Manager Hatton Creamery Association.

HILLSBORO, N. D.

Hon. Nelson Williams, Bismarck, N. D.:

I had a herd of pure bred Holstein cattle at one time, including twenty-six milch cows, but at that time there was no creamery in my neighborhood—Grandin, Traill county. All I could sell was butter; and then there were many poor quality scrub cows in the vicinity, and across the Red River in Minnesota, owned largely by foreigners who used no care in making their butter and sold it at ten cents a pound. This, in a measure, lowered the price so that I could not get much more for mine; and at that price I could not afford to keep cows and hire the labor. I therefore sold my cows as quickly as I could, and I judge that the low price and poor market caused most of the small farmers to sell off their cows for beef—resulting in a scarcity of cows and higher prices for butter. Since that time most of the grass land has been broken up for wheat, and farmers having to keep so many work horses find that they have no grass or hay to spare for any more cows than just what are necessary for their own family use. (The general opinion of the wheat farmers with whom I have talked upon the subject is that cows are a nuisance on a wheat farm, and they won't keep more than one or two for family use.)

I believe that a dairy business to be successful can only be carried on in the vicinity of a good market for milk and butter; but I see no reason why cheese could not be made at a profit, except that it requires some union of capital and cows. And I should think that with the continued low price of wheat, farmers might be driven to get together the necessary conditions—which are grass, cows and capital. But I do not agree with you that pasturage is now cheap. It might have been once, but it has all gone to make wheat; and if a field is laid down to timothy it is only with a view to restoring the land for wheat, and it is soon broken up again; so that nearly all farmers are short of pasturage and hay land.

Perhaps another cause is that farmers in North Dakota are so desperately poor that they cannot risk the cost of an experimental change from cash wheat to some new business that must be built up; although I think there is no question that more can be made from cows and grass than from raising fifty-cent wheat.

Very respectfully,

D. W. CUNNINGHAM.

P. S.—I will add that my dairying was only consequent upon the raising of pure bred Holstein cattle, and at that time—about 1886—the country did not seem to be ready for such business. There was no sale for the pure bred stock, and no market for the milk and butter in North Dakota. It would have required refrigerator cars to ship it away, and I had not sufficient quantity to ship in carload lots. I did, however, receive prizes on my stock at the Grand Forks Territorial and Traill County Fairs. I believe, however,

that the country is now ready for such an enterprise. There is a home market for good butter, and good cattle and dairy cows.

D. W. C.

The cause of failure is want of milk. I paid as much for milk as they do in York State. The main cause of not being able to obtain milk is, as I understand it, want of pastures fenced. The farmers have raised wheat until they are too poor to build pasture fences, and labor is so high they cannot afford to hire a man to herd eight to fifteen cows. I think North Dakota a good place to make butter and cheese, and believe that in the course of time dairies will be operated to a considerable extent.

Laws should be made similar to those in New York in regard to skimming milk and watering it, to protect butter and cheese factories.

The trouble in manufacturing cheese comes from different causes.

First—We have not enough cows.

Second—The great majority of the farmers don't know what profit they would get from their cows if they would take good care of them. Generally the cows are left out in the fall of the year, on grass only, until the ground is covered with snow. The same cows are mostly wintered on straw, and turned out again on grass as soon as the snow disappears in the spring.

Third—Our cows are scrubs, and most of them are the worst kind of scrubs. With poor scrub cows, and the bad care they receive, they cannot give much milk. Last summer one of my patrons had thirteen milking cows, and during eighty-eight days he brought me 10,434 pounds of milk, which is a very poor average.

Fourth—The farmers are used to raising wheat. The most of them have debts to pay, and they think they cannot afford to give up farming and buy good cows.

The prices paid for milk are satisfactory to farmers. We have no trouble to sell good cheese at a good price. We have one of the best locations in this State for stock—good pastures, plenty of shelter, can grow plenty of hay, and we have the best of water.

For the remedy, I would ask the Government to appropriate to our district the sum of $25. We would organize what in the Province of Quebec is called an Agricultural Circle, or District. We would elect a chairman, secretary and treasurer as directors, choose a place of meeting, keep a record, and make reports to the Government when required. All this would be done without expense to the Government. The money appropriated would be used to subscribe for good agricultural papers, so that every patron of our cheese factory would bring home his paper, would learn how to build barns, take care of stock, cultivate roots, vegetables, etc. Very soon they would become interested in such matters, and would give up raising so much wheat that we now have to sell for less than it costs to raise it. A few good books that would treat of diseases and remedies for different kinds of stock, and some dairy books, would not be out of place. These books would be kept at the place of meeting. In our meetings we would discuss dairy and stock matters, and with good books and papers at our disposal, it would create an interest.

If we could once interest the people in the dairy business they would at once begin to improve their stock. These suggestions carried out would do much good, considering the small amount of money invested.

This cheese factory was built by a stock company in the spring of 1891. In the summer of 1892 we happened to have a poor cheese maker, and lost money. It was proposed to give up the business, when I bought it out. We ran light last summer, but made good cheese and got the highest price for it.

THE RUSSIAN THISTLE.

The spread of the Russian thistle during the last few years attracted such attention in the autumn of 1893 that Governor Shortridge was requested to call a public meeting to consider repressive measures. Such a meeting was held at LaMoure on November 9, 1893, at which a committee was appointed with Dr. M. F. Merchant of Ellendale, as chairman, to gather all available information about the weed, including the extent of territory covered by it, the best methods of combating its further spread and eradicating it from land already infected, and to report its findings to the Commissioner of Agriculture and Labor.

This committee made an exhaustive report in February, 1894, which, with the sanction of the Governor, was published by the Commissioner in pamphlet form, with such other information as was at hand, accompanied by illustrative cuts. Two editions of this pamphlet were published, aggregating 5,000 copies, which were as well distributed as possible in the portions of the State most needing them, and a supply of several hundred is still on hand for future use. The total cost of publishing the pamphlet was $147.09.

AGRICULTURAL STATISTICS.

The acreages of the different crops have been obtained in the usual manner—that is, from the assessors who gather the information while assessing property for taxation. As is generally known, the acreage of each crop is returned twice—first, during the year in which the crop grows, and again the succeeding year when the assessors return both the acreage and yield for the preceding year, and the acreage for the current year. This gives a check on the accuracy of the work so far as acreages are concerned, though even then the result is far from satisfactory. There is more or less of a tendency among farmers to exaggerate their acreage in the spring after seeding, and to return less than the true amount when the next year they give both acreage and yield—in order to appear to have raised a larger crop per acre. If theassessors returned the acreage for every farmer every year, the aggregates given for the current year would doubtless be too large, and those for the past year too small; but it is certain that some acreages are missed altogether by the assessors, and it is not improbable that the aggregates given even for the current year are too small. There is no reason for supposing that the bushels raised are erroneously returned, except for that part which, like the acreages missed, is not returned at all. Absolute accuracy in crop statistics is a matter of impossibility, and careful judgment and discriminating supervision are required to reach approximate accuracy.

In practice the acreages returned for the current year have to be revised the next year, and the discrepancies between the two sets reconciled in the best way possible. To accomplish this the opinions of the County Auditors are largely relied upon, and when they fail to make recommendations the average acreage between the two sets of returns is usually adopted.

In 1893 quite a large acreage was not harvested at all, and in the blanks used for 1894 the acreage sown and the acreage harvested were both asked, as well as the yield in bushels and the causes of failure where failure existed. The result shows nearly 117,000 acres sown to wheat which was not harvested at all. Likewise, more than 18,000 acres of

oats, 9,000 of barley, 4,000 of flax, and 2,700 of rye were not harvested. These failures, as noted by the assessors and returned by the county auditors, are attributed to the following causes: Drouth, hot winds, hail, Russian thistle, gophers, pepper grass and other weeds, and in one or two instances to poor seed. The Russian thistle is making considerable headway in the southern portion of the State, and has appeared in some localities in the central and northern parts. Its spread has been materially aided the past season by the drouth in certain portions of the State, which blighted cereal growth and gave the thistle a chance to overspread the fields.

The acreage of wheat appears to slowly increase from year to year, notwithstanding considerable sentiment expressed each year in favor of reducing it, and the current opinion prevalent almost every spring that a reduced acreage is actually seeded. In a few of the older counties some rather fitful reduction is seen from time to time—which is usually made up the next year—but all such slight reductions seem to be more than overcome by the steady increase in the newer counties, which is the natural result of breaking up new land. The increase since 1890 appears to have been about 400,000 acres—200,000 of which was in 1891 and 140,000 in 1893. Where wheat is by far a more important crop than all others combined, and is one that brings ready money and quick returns, even with very small profits or none at all, it seems difficult to make a change to some other kind of farming, especially as all other branches in this climate are as yet, in the opinion of most farmers, something of an experiment.

But the areas of other crops show an increase materially greater than wheat. While the wheat acreage has increased about sixteen per cent. in four years, oats has increased about twenty-four per cent., barley more than one hundred and fifty per cent., rye more than five hundred per cent., potatoes about twenty-three per cent. With flax and corn the movement of acreages has been less steady. The largest flax acreage in the history of the State was in 1890—nearly 114,000 acres. In two years this dropped to a little more than 28,000 acres, since which time it has rapidly recovered, and for 1894 is returned at nearly the amount grown four years ago. The acreage of corn likewise appears to have suffered a great decline in 1892—from 30,000 acres to 10,000, doubtless owing largely to the unfavorable season for planting. In 1893 there was an increase of 50 per cent., and in 1894 of 150 per cent.; while the feeling among farmers now appears to be strongly in favor of largely increasing the corn acreage next year, which will no doubt be done if the season is favorable for planting. Taking the acreages of oats, barley, flax, rye, corn and potatoes as a whole, the increase since 1890 has been about 47 per cent., against 16 per cent. for wheat. This indicates a gradual tendency toward diversification, the ever increasing importance of what are

now called the minor crops, which promises good results in a few years without the violence of a sudden change in the great crop staples. Ten years more of a crop movement in the same direction and at the same rate as the last four years would bring some of the minor crops to very important proportions; and there is good reason for thinking that the change from wheat to other crops will be accelerated as the years go by and it becomes demonstrated to the average farmer that safety, and even money, can be found in the new lines of farming.

Heretofore an estimate has been made and published each autumn of the yield per acre of the different crops for the current year. This estimate has been abandoned for this year. The estimate made by the United States Department of Agriculture, published in October, places the wheat yield of North Dakota at 11.2 bushel per acre; oats is estimated at 25.9 bushels; barley, 20.1 bushels; rye, 15 bushels. Corn in the November report was estimated at 19.2 bushels, and potatoes at 84 bushels.

In 1893 the same authority made the following estimates for North Dakota: Wheat, 9.5 bushels per acre; oats, 21.9 bushels; barley, 15.2; rye, 12.3; corn, 20.8; potatoes, 69 bushels.

The returns of the assessors the next year gave the following yields for the same crop—1893: Wheat, 10.5 bushels; oats, 20.9 bushels; barley, 17.6 bushels; rye, 12.3 bushels; corn, 15.8 bushels; potatoes, 98.9 bushels—showing the yields of wheat, barley and potatoes to have been under-estimated by the Government, oats and corn to have been overestimated, and the estimate for rye to have been correct.

In 1892 the Government estimates were: Wheat, 12 2; oats, 30.6; barley, 24.3; rye, 11.8; corn, 21.5; potatoes, 75 bushels. The yields shown by the assessors were: Wheat, 13.9; oats, 32.3; barley, 26.6; rye, 16.9; corn, 22.5; potatoes 113—showing that the Government estimate was too low for every crop.

In 1891 the Government estimate was: Wheat, 17.8; oats, 33.5; barley, 30; rye, 17.5; corn, 27.2; potatoes, 105. The assessors' returns gave for following yields: Wheat, 20.5; oats, 35.6; barley, 32.7; rye, 20.9; corn, 19.7; potatoes, 138—showing again that every crop had been under-estimated except corn.

The comparison for the three years shows wheat to have been under-estimated by the Government every year; oats, over-estimated in 1893 and under-estimated the other two years; barley, under-estimated every year; rye, correct in 1893 and under-estimated the other two years; corn, over-estimated in 1893 and 1891 and under-estimated in 1892; potatoes, under-estimated every year. Averaging them, for the three years the Government estimates of the wheat yield of the State averaged to be 1.8 bushels per acre too low; oats, averaged nine-tenths of a bushel too low; barley, averaged nearly 2.5 bushels per acre too low; corn, aver-

aged 3.7 bushels per acre too high; potatoes averaged 23 bushels per acre too low.

It is thus seen that the estimates of the United States Department of Agriculture for this State have for the last three years—the only years for which estimates have been made separately from South Dakota—have been too low for the principal crops, and the probabilities are that they will prove so for the present year, and perhaps an average of twelve bushels of wheat per acre for 1894 will prove not far from the truth.

In this series of tables are given the acreage, total yield and average yield per acre of the different crops by counties for a period of six years, from 1888 to 1893 inclusive. This showing made by these tables is not quite fair to the State, for the reason that they begin at the beginning of a series of poor crops, and only one first-class crop is included in the entire period of six years. The year 1887, which immediately precedes the time included in these tables, was one of excellent crops, but no reliable data could be found for acreages—in the records of either North or South Dakota. The aggregate products could be found for the then Territory of Dakota, but nothing giving the product by counties which would enable a compilation for the counties now comprising the State of North Dakota. The yields, and to some extent the acreages, for 1888 cannot be considered very reliable, while those for 1889 and 1890 are probably less accurate than the figures for the last four years. For some of the crops which are but little raised the average yields are evidently erroneous, but the acreages are so small in such cases that they have very little influence in determining the general result of the State. For instance, the yield of corn in Billings county in 1888 is given at 100 bushels per acre, and in Pembina and Ramsey counties in 1892 at 70 bushels; but as the acreage in those counties ranged from two to fifteen, it makes but little difference in the general result.

It will be observed that returns are given for Hettinger county for 1891 and 1892, while no crops are shown for 1893 or 1894. The reason for this is not that crops have ceased to be raised in Hettinger county, but that it was impossible to procure the information during the past year. Hettinger county is attached to Stark for civil purposes, and its statistics are returned with those of Stark county. The past year the Auditor of Stark made no report for Hettinger county, and in reply to a letter of inquiry stated that the assessor for Hettinger county claimed to be unable to procure the information from the people.

WHEAT.

No.	COUNTIES.	1893.		
		Acres Sown.	Average Yield for Acres Sown —Bushels.	Acres Harvested.
1	Barnes	133,716	8.20	125,153
2	Benson	49,381	13.59	47,796
3	Billings	.....	.....	.....
4	Bottineau	48,494	7.10	48,494
5	Burleigh	21,231	8.21	19,794
6	Cass	446,998	9.82	424,097
7	Cavalier	59,632	16.93	59,234
8	Dickey	119,503	5.38	93,876
9	Eddy	27,884	11.52	27,123
10	Emmons	22,631	8.00	19,731
11	Foster	29,496	10.90	28,367
12	Grand Forks	282,270	12.39	281,490
13	Griggs	47,187	7.95	46,962
14	Kidder	24,759	4.93	21,996
15	LaMoure	67,412	6.05	61,885
16	Logan	8,103	6.03	7,703
17	McHenry	10,243	6.41	8,423
18	McIntosh	43,056	7.81	42,867
19	McLean	5,353	9.00	5,108
20	Mercer	3,163	3.28	2,606
21	Morton	20,355	8.74	20,355
22	Nelson	63,395	9.80	57,733
23	Oliver	1,260	10.25	1,251
24	Pembina	209,412	12.26	207,166
25	Pierce	14,577	9.12	13,348
26	Ramsey	77,568	11.98	76,531
27	Ransom	102,079	6.91	90,248
28	Richland	195,945	9.71	195,115
29	Rolette	26,493	9.32	25,307
30	Sargent	110,105	7.38	100,777
31	Stark	12,416	4.24	10,272
32	Steele	105,158	12.10	105,009
33	Stutsman	54,561	9.18	52,683
34	Towner	49,412	12.64	49,267
35	Traill	255,667	12.89	255,667
36	Walsh	233,616	14.67	232,943
37	Ward	1,631	4.41	856
38	Wells	34,207	10.50	34,184
39	Williams	16	20.06	16
40	Hettinger	.....	.....	.....
41	Dunn, McKenzie, Allred, Wallace.	888	3.90	868
	Totals	3,019,253	10.51	2,902,301

WHEAT—*Continued.*

No.	COUNTIES.	1893.		1894.
		Average Yield for Acres Harvested—Bushels.	Total Product—Bushels.	Acres Sown.
1	Barnes	8.76	1,096,471	132,663
2	Benson	14.05	671,581	48,991
3	Billings	.....	.....	4
4	Bottineau	7.10	344,317	49,077
5	Burleigh	8.81	174,401	19,118
6	Cass	10.35	4,391,390	429,379
7	Cavalier	17.05	1,009 974	64,333
8	Dickey	6.84	642 927	98,558
9	Eddy	11.84	321,252	34,000
10	Emmons	9.17	181,056	24,352
11	Foster	11.33	321,519	31,816
12	Grand Forks	12.43	3,498,984	266,224
13	Griggs	7.99	375.371	50,127
14	Kidder	5.54	121,997	18,616
15	LaMoure	6.59	408,158	73,340
16	Logan	6.34	48,869	8.718
17	McHenry	7.80	65,716	10,093
18	McIntosh	7.85	336,531	44,308
19	McLean	9.40	48,216	4 864
20	Mercer	3.99	10,406	3,598
21	Morton	8.74	178,097	24,483
22	Nelson	10.76	621,757	70,367
23	Oliver	10.33	12,927	1,398
24	Pembina	12.40	2,569,313	208,308
25	Pierce	9.96	133,008	16,174
26	Ramsey	12.14	929,586	80,808
27	Ransom	7.81	705,696	101,739
28	Richland	9.75	1,903,557	208,358
29	Rolette	9.75	246,963	28,381
30	Sargent	8.06	812,793	111,340
31	Stark	5.12	52,688	14,978
32	Steele	12.12	1,273,115,	109.092
33	Stutsman	9.51	501,079	60,631
34	Towner	12.66	625,029	51,141
35	Traill	12.89	3,298,006	255,729
36	Walsh	14.72	3,428,966	238,468
37	Ward	8.40	7,195	664
38	Wells	10.51	359,468	42,465
39	Williams	20.06	321	12
40	Hettinger	.....	.....	.....
41	Dunn, McKenzie, Allred, Wallace.	3.99	3,469	928
	Totals	10.93	31,732,169	3,037,643

OATS.

No.	COUNTIES.	1893.		
		Acres Sown.	Average Yield for Acres Sown —Bushels.	Acres Harvested.
1	Barnes	29,587	16.60	27,705
2	Benson	9,045	22.40	8,741
3	Billings	.....	.....	.....
4	Bottineau	8,152	11.50	8,152
5	Burleigh	5,623	12.61	5,485
6	Cass	65,888	24.03	65,888
7	Cavalier	26,697	26.01	26 580
8	Dickey	13,835	9.19	11,582
9	Eddy	5,789	19.15	5,413
10	Emmons	4,505	13.11	3,738
11	Foster	5,826	18.40	5,563
12	Grand Forks	40,468	28.63	40,448
13	Griggs	8,029	11.07	8,022
14	Kidder	3,764	7.78	3,503
15	LaMoure	9,106	12.71	8,155
16	Logan	1,080	10.16	991
17	McHenry	2,589	8.24	1,839
18	McIntosh	5,888	13.40	5,742
19	McLean	2,087	13.70	1,890
20	Mercer	1,296	3.48	786
21	Morton	5,958	10.57	5,958
22	Nelson	11,394	20.10	10,909
23	Oliver	1,182	16.59	1,175
24	Pembina	32,670	17.80	31,851
25	Pierce	2,119	15.02	1,925
26	Ramsey	12,582	23.00	12,107
27	Ransom	11,507	14.31	10,446
28	Richland	37,415	21.50	36,997
29	Rolette	5,379	16.21	5,036
30	Sargent	16,017	14.47	12 944
31	Stark	3,975	3.60	2,584
32	Steele	16,251	25.50	16,208
33	Stutsman	11,354	20.05	10,921
34	Towner	10,277	24.09	10,052
35	Traill	33,205	26.30	33,205
36	Walsh	32,219	30.69	32,038
37	Ward	1,261	6.71	973
38	Wells	7,520	17.46	7,395
39	Williams	398	19.70	396
40	Hettinger	.....	.....	.....
41	Dunn, McKenzie, Allred, Wallace.	510	7.01	501
	Totals	502,447	20.89	483,844

OATS—*Continued.*

No.	COUNTIES.	1893. Average Yield for Acres Harvested—Bushels.	1893. Total Product—Bushels.	1894. Acres Sown.
1	Barnes	17.72	491,144	25,964
2	Benson	23.17	202,604	10,218
3	Billings	.....	.....	2
4	Bottineau	11.50	93,759	6,291
5	Burleigh	12.93	70,931	5,762
6	Cass	24.03	1,583,642	76,077
7	Cavalier	26.12	694,517	29,466
8	Dickey	10.97	127,101	12,995
9	Eddy	20.50	110,876	6,365
10	Emmons	15.80	59,069	4,816
11	Foster	19.26	107,198	6,510
12	Grand Forks	28.64	1,158,748	49,270
13	Griggs	11.08	88,953	10,017
14	Kidder	8.36	29,295	3,151
15	LaMoure	14.20	115,824	9,931
16	Logan	11.07	10,977	1,131
17	McHenry	11.60	21,338	2,106
18	McIntosh	13.74	78 920	6,850
19	McLean	15.12	28,591	2,428
20	Mercer	5.73	4,511	1,197
21	Morton	10.57	63,033	7,326
22	Nelson	20.99	229,065	13,380
23	Oliver	16.69	19,621	1,190
24	Pembina	18.25	581,526	36,534
25	Pierce	16.54	31,846	2,700
26	Ramsey	23.90	289,454	14,660
27	Ransom	15.77	164,779	11,479
28	Richland	21.74	804 469	35,174
29	Rolette	17.31	87,203	6,179
30	Sargent	17.91	231,894	15,556
31	Stark	5.54	14,318	3,102
32	Steele	25.56	414,428	19,063
33	Stutsman	20.85	227,704	13,385
34	Towner	24.63	247,627	12,433
35	Traill	26.30	873,298	38,434
36	Walsh	30.86	988,941	37,048
37	Ward	8.69	8,456	526
38	Wells	17.76	131,374	8,817
39	Williams	19.80	7,841	392
40	Hettinger	.....	.....	.....
41	Dunn, McKenzie, Allred, Wallace.	7.13	3,576	444
	Totals	21.70	10,498,451	548,369

BARLEY.

No.	COUNTIES.	1893.		
		Acres Sown.	Average Yield for Acres Sown —Bushels.	Acres Harvested.
1	Barnes	10,878	12.90	10,710
2	Benson	4,757	18.80	4,476
3	Billings	.....	.....	.....
4	Bottineau	2,024	11.10	2,024
5	Burleigh	270	9.11	234
6	Cass	26,018	17.57	25,808
7	Cavalier	18,551	21.57	18,175
8	Dickey	12,159	6.88	10,151
9	Eddy	1,309	12.81	1,239
10	Emmons	965	9.61	898
11	Foster	1,915	16.40	1,847
12	Grand Forks	17,113	19.49	16,945
13	Griggs	3,988	13.41	3,742
14	Kidder	2,482	7.54	2,099
15	LaMoure	3,781	10.10	3,687
16	Logan	405	8.92	352
17	McHenry	469	10.79	401
18	McIntosh	2,151	24.26	2,069
19	McLean	608	17.92	608
20	Mercer	229	7.72	209
21	Morton	319	11.82	319
22	Nelson	8,258	13.60	7,449
23	Oliver	52	16.17	52
24	Pembina	25,249	26.10	24,978
25	Pierce	907	10.30	719
26	Ramsey	10,129	17.74	9,283
27	Ransom	5,350	10.71	4,683
28	Richland	8,588	16.01	8,449
29	Rolette	1,566	10.29	1 432
30	Sargent	6,017	11.00	5,443
31	Stark	195	5.10	155
32	Steele	7,166	16.18	7,126
33	Stutsman	5,130	14.80	4.747
34	Towner	5,068	17.71	4,804
35	Traill	13,338	19.81	13,338
36	Walsh	17,130	22.50	16,960
37	Ward	59	13.24	37
38	Wells	2,599	18.00	2,549
39	Williams	13	27.52	13
40	Hettinger	.....	.....	.....
41	Dunn, McKenzie, Allred, Wallace.	45	5.28	45
	Totals	227,250	17.57	218,255

BARLEY—*Continued.*

No.	COUNTIES.	1893.		1894.
		Average Yield for Acres Harvested, Bushels.	Total Product—Bushels.	Acres Sown.
1	Barnes	13.10	140,326	11,931
2	Benson	19.98	89,432	5,378
3	Billings	.....	.....	.....
4	Bottineau	11.10	22,473	2,484
5	Burleigh	10.52	2,462	334
6	Cass	17.71	457,150	30,126
7	Cavalier	22.01	400,162	21,771
8	Dickey	8.24	83,668	10,145
9	Eddy	13.53	16,767	1,288
10	Emmons	10.32	9,271	1.274
11	Foster	17.00	31,406	2,507
12	Grand Forks	19.68	333,545	22,896
13	Griggs	14.28	53,456	4,802
14	Kidder	8.92	18,723	2,342
15	LaMoure	10.35	38,188	3,737
16	Logan	10.26	3,613	470
17	McHenry	12.62	5,062	598
18	McIntosh	25.22	52,189	3,204
19	McLean	17.92	10,896	315
20	Mercer	8.46	1,769	366
21	Morton	11.82	3,772	611
22	Nelson	15.07	112,323	7,157
23	Oliver	16.17	841	113
24	Pembina	26.38	658,998	30,184
25	Pierce	12.99	9,344	1,091
26	Ramsey	19.35	179,700	12,317
27	Ransom	12.24	57,346	4,733
28	Richland	16.27	137,504	9,442
29	Rolette	11.25	16,122	1,700
30	Sargent	12.16	66,202	5,991
31	Stark	6.41	994	302
32	Steele	16.27	116,000	7,532
33	Stutsman	15.99	75,918	4,829
34	Towner	18.68	89,743	6,334
35	Traill	19.80	264,187	15,215
36	Walsh	22.73	385,516	21,327
37	Ward	21.10	781	68
38	Wells	18.35	46,791	3,267
39	Williams	27.54	358	13
40	Hettinger	.....	.....	.....
41	Dunn, McKenzie, Allred, Wallace.	5.28	238	58
	Totals	18 30	3,993,236	258,252

FLAX.

No	COUNTIES.	1893.		
		Acres Sown.	Average Yield for Acres Sown —Bushels.	Acres Harvested.
1	Barnes	487	6.46	487
2	Benson	732	7.51	630
3	Billings	.....	.....	.....
4	Bottineau	50	6.86	50
5	Burleigh	423	2.31	205
6	Cass	2,225	4.99	2,225
7	Cavalier	81	4.92	81
8	Dickey	9,649	4.11	7,873
9	Eddy	284	8.99	284
10	Emmons	5,446	4.90	5,291
11	Foster	1,018	6.90	968
12	Grand Forks	369	9.04	369
13	Griggs	653	10.97	616
14	Kidder	1,262	4.90	1,211
15	LaMoure	4,980	5.20	4,681
16	Logan	2,231	4.36	2,160
17	McHenry	88	6.18	70
18	McIntosh	9,738	6.22	9,428
19	McLean	50	4.12	31
20	Mercer	523	1.23	414
21	Morton	646	6.31	646
22	Nelson	457	8.01	413
23	Oliver	13	10.00	13
24	Pembina	409	8.99	394
25	Pierce	189	6.08	179
26	Ramsey	23	6.73	23
27	Ransom	2,264	6.29	2,172
28	Richland	2,997	4.54	2,715
29	Rolette	.....	.....	.....
30	Sargent	3,609	5.68	3,254
31	Stark	305	2.68	278
32	Steele	140	10.27	140
33	Stutsman	1,095	9.07	1,095
34	Towner	.....	.....	.....
35	Traill	449	11.47	449
36	Walsh	734	9.49	681
37	Ward	.....	.....	.....
38	Wells	3,848	8.56	3,810
39	Williams	.....	.....	.....
40	Hettinger	.....	.....	.....
41	Dunn, McKenzie, Allred, Wallace.	.....	.....	.....
	Totals	57,467	5.75	53,336

FLAX—*Continued.*

No.	COUNTIES.	1893.		1894.
		Average Yield for Acres Harvested, Bushels.	Total Product—Bushels.	Acres Sown.
1	Barnes	6.46	3,148	1,594
2	Benson	8.72	5,499	1,633
3	Billings	.....	.....	.....
4	Bottineau	6.86	343	189
5	Burleigh	4.77	979	660
6	Cass	4.99	11,124	8,634
7	Cavalier	4.92	399	362
8	Dickey	5.03	39,656	10,883
9	Eddy	8 99	2,554	1,288
10	Emmons	5.04	26,698	7,018
11	Foster	7.25	7,024	1,907
12	Grand Forks	9.04	3,337	2,431
13	Griggs	11.62	7,163	2 218
14	Kidder	5.10	6,184	3,553
15	LaMoure	5.53	25,890	8,633
16	Logan	4.50	9,729	4,975
17	McHenry	7.77	544	287
18	McIntosh	6.42	60,578	12,967
19	McLean	6.64	206	142
20	Mercer	1.56	646	734
21	Morton	6.31	4,081	1,783
22	Nelson	8.86	3.661	1,638
23	Oliver	10.00	130	17
24	Pembina	9.34	3,680	675
25	Pierce	6.42	1,150	439
26	Ramsey	6.73	155	445
27	Ransom	6.55	14,241	8,755
28	Richland	5.01	13,629	4,871
29	Rolette	.....	.....	21
30	Sargent	6.30	20,521	5,226
31	Stark	2.94	820	438
32	Steele	10.27	1,438	928
33	Stutsman	9.06	9,931	2,014
34	Towner	.....	.....	58
35	Traill	11.48	5.156	1,779
36	Walsh	10.23	6,970	3,057
37	Ward	.....	.....	38
38	Wells	8.64	32,950	8,074
39	Williams	.....	.....	.....
40	Hettinger	.....	.....	.....
41	Dunn, McKenzie, Allred, Wallace.	.....	.....	1
	Totals	6.19	330,214	110,365

RYE.

No.	COUNTIES.	1893.		
		Acres Sown.	Average Yield for Acres Sown —Bushels.	Acres Harvested.
1	Barnes	3,117	9.30	2,967
2	Benson	299	13.85	298
3	Billings	.....	.....	.....
4	Bottineau	152	7.51	152
5	Burleigh	475	7.39	451
6	Cass	1,106	10.28	1,106
7	Cavalier	312	18.96	312
8	Dickey	3,373	6.64	3,363
9	Eddy	2,068	11.53	2,008
10	Emmons	1,320	7.63	1,206
11	Foster	1,250	7.32	780
12	Grand Forks	693	9.31	693
13	Griggs	2,188	7.86	1,460
14	Kidder	453	7.21	441
15	LaMoure	7,152	7.10	7,097
16	Logan	537	7.17	494
17	McHenry	58	6.53	45
18	McIntosh	3,616	9.73	3,599
19	McLean	28	15.10	28
20	Mercer	3	3.33	3
21	Morton	113	13.46	113
22	Nelson	2,655	12.10	2,655
23	Oliver	91	11.85	91
24	Pembina	229	15.91	229
25	Pierce	24	13.33	24
26	Ramsey	102	16.17	102
27	Ransom	1,854	6.58	1,494
28	Richland	478	5.86	434
29	Rolette	34	15.70	33
30	Sargent	1,994	5.65	1,484
31	Stark	117	4.07	75
32	Steele	1,535	14.00	1,535
33	Stutsman	1,832	11.10	1,763
34	Towner	2	10.00	2
35	Traill	730	12.52	730
36	Walsh	691	9.79	691
37	Ward	.....	.....	.....
38	Wells	273	16.08	273
39	Williams	.....	.....	.....
40	Hettinger	.....	.....	.....
41	Dunn, McKenzie, Allred, Wallace.	5	4.80	5
	Totals	40,959	8.98	38,236

RYE.—*Continued.*

No.	COUNTIES.	1893.		1894.
		Average Yield for Acres Harvested, Bushels.	Total Product —Bushels.	Acres Sown.
1	Barnes	9.77	28,988	3,617
2	Benson	13.89	4,140	1,146
3	Billings	.....	.....	.....
4	Bottineau	7.51	1,143	330
5	Burleigh	7.79	3,513	694
6	Cass	10.28	11,378	709
7	Cavalier	18.96	5,916	399
8	Dickey	6.66	22,406	7,045
9	Eddy	11.87	23,855	2,507
10	Emmons	8.35	10,082	1,550
11	Foster	11.73	9,156	837
12	Grand Forks	9.31	6,457	1,230
13	Griggs	11.78	17,200	2,311
14	Kidder	7.40	3,267	581
15	LaMoure	7.15	50,791	7,764
16	Logan	7.80	3,854	1,011
17	McHenry	8.42	379	217
18	McIntosh	9.78	35,201	4,498
19	McLean	15.10	423	57
20	Mercer	3.33	10	6
21	Morton	13.46	1,522	289
22	Nelson	12.10	32,131	3,530
23	Oliver	11.85	1,079	92
24	Pembina	15.91	3,645	354
25	Pierce	13.33	320	56
26	Ramsey	16.17	1,650	784
27	Ransom	8.17	12,203	2,231
28	Richland	6.46	2,804	346
29	Rolette	16.18	534	106
30	Sargent	7.59	11,274	2,334
31	Stark	4.36	477	117
32	Steele	14.00	21,495	971
33	Stutsman	11.50	20,341	2,421
34	Towner	10.00	20	96
35	Traill	12.53	9,142	438
36	Walsh	9.79	6,765	641
37	Ward	.....	.....	5
38	Wells	16.08	4,391	759
39	Williams	.....	.....	.....
40	Hettinger	.....	.....	.....
41	Dunn, McKenzie, Allred, Wallace	4.80	24	20
	Totals	9.62	367,976	52,099

CORN.

No.	COUNTIES.	1893.			1894.
		Acres Planted.	Average Y'ld —Bushels.	Total Product —Bushels.	Acres Planted.
1	Barnes	192	20.39	3,916	660
2	Benson	57	38.43	2,191	52
3	Billings	11	13.63	150	33
4	Bottineau	3	15.00	45	.....
5	Burleigh	2,288	15.14	34,642	4 623
6	Cass	1,091	24.71	26,961	4,052
7	Cavalier	.....	.....	.....	4
8	Dickey	1,071	8.25	8,837	3,473
9	Eddy	6	18.66	112	35
10	Emmons	2,084	15.81	32,963	3,809
11	Foster	56	7.85	440	140
12	Grand Forks	102	25.00	2,551	852
13	Griggs	5	16.00	80	22
14	Kidder	240	6.04	1,450	622
15	La Moure	212	14.89	3,158	678
16	Logan	184	3.21	591	373
17	McHenry	25	9.44	236	126
18	McIntosh	311	8.99	2,796	697
19	McLean	544	18.79	10,227	705
20	Mercer	356	6.42	2,287	546
21	Morton	2,240	17.06	38,226	3,946
22	Nelson	1	56.00	56	9
23	Oliver	380	12.55	4,770	680
24	Pembina	9	39.66	357	25
25	Pierce	.....	.....	.....	21
26	Ramsey	3	29.66	89	18
27	Ransom	179	19.66	3,510	2,829
28	Richland	1,190	29.19	34,742	3,563
29	Rolette	1	25.00	25	15
30	Sargent	590	20.89	12,326	2,316
31	Stark	1,092	4.01	4,381	1,503
32	Steele	455	5.19	2,364	295
33	Stutsman	85	13.47	1,145	237
34	Towner	6	22.50	135	38
35	Traill	238	23.27	5,540	1,122
36	Walsh	23	32.39	745	220
37	Ward	76	9.76	742	131
38	Wells	3	20.33	61	35
39	Williams	41	35.00	1,435	56
40	Hettinger	.....	.....	.....	.....
41	Dunn, etc	132	11.00	1,452	135
	Totals	15,582	15.80	245,734	38,696

POTATOES.

No.	COUNTIES.	1893.			1894.
		Acres Planted.	Average Yield —Bushels.	Total Product —Bushels.	Acres Planted.
1	Barnes	606	69.90	42,359	769
2	Benson	169	116.09	19,620	244
3	Billings	8	46.25	370	20
4	Bottineau	216	47.12	10,179	224
5	Burleigh	440	60.94	26,817	655
6	Cass	1,566	79.20	124,037	2,527
7	Cavalier	335	126.86	42,500	520
8	Dickey	606	50.84	30,812	1,050
9	Eddy	122	91.95	11,218	82
10	Emmons	318	50.38	16,023	375
11	Foster	114	102.50	11,685	154
12	Grand Forks	1,903	87.63	87,897	1,205
13	Griggs	193	79.18	15,283	246
14	Kidder	101	61.41	6,203	181
15	LaMoure	315	45.66	14,385	353
16	Logan	48	61.93	2,973	56
17	McHenry	117	41.30	4,836	108
18	McIntosh	274	59.70	16,358	321
19	McLean	107	76.29	8,164	126
20	Mercer	64	51.17	3,275	72
21	Morton	570	61.59	35,107	730
22	Nelson	424	65.04	27,578	430
23	Oliver	70	80.59	5,641	101
24	Pembina	757	151.24	114,496	1,157
25	Pierce	54	58.75	3,173	76
26	Ramsey	376	98.25	36,944	506
27	Ransom	366	61.05	22,345	455
28	Richland	2,527	87.14	220,215	2,155
29	Rolette	131	74.61	9,774	164
30	Sargent	411	55.49	22,808	550
31	Stark	243	22.50	5,469	238
32	Steele	336	82.87	27,847	482
33	Stutsman	496	91.77	45,518	729
34	Towner	188	91.72	17,245	115
35	Traill	828	86.69	71,782	850
36	Walsh	911	125.19	114,053	1,218
37	Ward	134	44.29	5,935	137
38	Wells	157	89.43	14,042	196
39	Williams	45	70.44	3,170	20
40	Hettinger	.....	.....	.....	.....
41	Dunn, etc	37	25.78	954	30
	Totals	15,783	82.31	1,299,090	19,627

MILLET AND HUNGARIAN.

No.	COUNTIES.	1892.		
		Acres Sown.	Average Yield —Tons.	Total Product—Tons.
1	Barnes	2,361	1.79	4.231
2	Benson	322	2.00	645
3	Billings	7	1.57	11
4	Bottineau	428	1.35	577
5	Burleigh	875	1.41	1,234
6	Cass	8,595	1.39	11,981
7	Cavalier	226	1.31	297
8	Dickey	4,370	1.32	5,755
9	Eddy	78	1.77	138
10	Emmons	577	1.79	1,030
11	Foster	136	1.51	206
12	Grand Forks	9,971	1.58	15,731
13	Griggs	808	1.64	1,325
14	Kidder	125	2.18	273
15	LaMoure	1,606	1.38	2,221
16	Logan	.....	.....	.....
17	McHenry	60	1.38	83
18	McIntosh	116	1.50	174
19	McLean	161	1.42	229
20	Mercer	197	.83	164
21	Morton	1,004	1.35	1,357
22	Nelson	751	1.40	1,055
23	Oliver	176	1.70	299
24	Pembina	3,755	1.38	5,185
25	Pierce	35	2.54	89
26	Ramsey	368	2.06	757
27	Ransom	3,599	1.41	5,090
28	Richland	6,140	2.01	12,340
29	Rolette	34	1.71	58
30	Sargent	3 821	1.58	6,037
31	Stark	600	1.25	747
32	Steele	3,677	1.69	6,206
33	Stutsman	1,565	1.44	2,252
34	Towner	142	2.04	290
35	Traill	7,232	1.57	11,350
36	Walsh	7,568	1.44	10.877
37	Ward	331	1.59	525
38	Wells	311	1.28	398
39	Williams	15	1.00	15
40	Hettinger	4	1.00	4
41	Dunn, McKenzie, Allred, Wallace.	85	1.46	124
	Totals	72,232	1.54	111,360

MILLET AND HUNGARIAN—*Continued.*

No.	COUNTIES.	1893.			1894.
		Acres Sown.	Average Yield —Tons.	Total Product— Tons.	Acres Sown.
1	Barnes	2,333	1.00	2,335	3,310
2	Benson	411	.97	398	590
3	Billings	11	1.63	16	18
4	Bottineau	285	.85	242	124
5	Burleigh	689	1.41	918	694
6	Cass	9,996	1.08	10,856	19,713
7	Cavalier	200	1.39	279	98
8	Dickey	3,213	76	2,459	7,693
9	Eddy	106	1.43	152	207
10	Emmons	580	1.60	936	637
11	Foster	95	1.40	133	283
12	Grand Forks	8,488	1.32	11,262	12,457
13	Griggs	991	.90	893	1,006
14	Kidder	206	1.49	320	246
15	LaMoure	1,417	.79	1,119	2,145
16	Logan	.....	.....	.....	15
17	McHenry	93	1.03	96	17
18	McIntosh	2	2.00	4	3
19	McLean	183	.89	164	104
20	Mercer	181	1.44	261	129
21	Morton	1,059	.98	1,042	1,336
22	Nelson	852	1.16	997	893
23	Oliver	215	1.16	251	127
24	Pembina	2,343	1.56	3,655	3,156
25	Pierce	152	.54	83	156
26	Ramsey	595	1.58	943	790
27	Ransom	2,550	.91	2,326	4,755
28	Richland	4,029	1 31	5,308	6,051
29	Rolette	.....	.....	.....	10
30	Sargent	2,018	1.16	2,344	4,933
31	Stark	570	.30	173	380
32	Steele	3,848	1.44	5,561	4,230
33	Stutsman	1,730	1.34	2,321	2,587
34	Towner	170	1.75	298	81
35	Traill	7,574	1.40	10,625	11,015
36	Walsh	7,130	1.49	10,657	9,484
37	Ward	426	1.04	447	361
38	Wells	313	1.45	454	912
39	Williams	.....	.....	.....	.....
40	Hettinger	.....	.....	.....	.....
41	Dunn, etc	57	.88	50	29
	Totals	65,111	1.20	80,378	100,775

OTHER TAME GRASSES.

No.	COUNTIES.	1892.		
		Acres Sown.	Average Yield—Tons	Total Product—Tons.
1	Barnes	216	1.74	376
2	Benson	.....	.....	.....
3	Billings	.....	.....	.....
4	Bottineau	52	1.73	90
5	Burleigh	19	1.42	27
6	Cass	3,715	1.32	4,890
7	Cavalier	56	1.75	98
8	Dickey	38	1.42	54
9	Eddy	31	1.19	37
10	Emmons	200	1.27	254
11	Foster	3	1.00	3
12	Grand Forks	4,106	1.29	5,300
13	Griggs	65	1.05	68
14	Kidder	14	1.07	15
15	LaMoure	.....	.....	.....
16	Logan	.....	.....	.....
17	McHenry	13	1.62	21
18	McIntosh	.....	.....	.....
19	McLean	100	1.65	165
20	Mercer	125	.80	100
21	Morton	4	1.50	6
22	Nelson	58	1.00	58
23	Oliver	.....	.....	.....
24	Pembina	1,064	1.55	1,648
25	Pierce	.....	.....	.....
26	Ramsey	68	2.21	150
27	Ransom	111	.89	99
28	Richland	1,815	1.52	2,760
29	Rolette	5	1.40	7
30	Sargent	131	1.18	155
31	Stark	.....	.....	.....
32	Steele	316	1.14	359
33	Stutsman	124	1.09	135
34	Towner	.....	.....	.....
35	Traill	3,294	1.25	4,127
36	Walsh	1,835	1.28	2,348
37	Ward	.....	.....	.....
38	Wells	2	1.50	3
39	Williams	89	1.00	89
40	Hettinger	.....	.....	.....
41	Dunn, McKenzie, Allred, Wallace	.....	.....	.....
	Totals	17,669	1.33	23,442

OTHER TAME GRASSES—*Continued.*

No.	COUNTIES.	1893.			1894.
		Acres Sown	Avearage Yield—Tons.	Total Product—Tons.	Acres Sown.
1	Barnes	308	.94	289	353
2	Benson	.....	.....	.....	35
3	Billings	.....	.....	.....	.....
4	Bottineau	.....	.....	.....	30
5	Burleigh	.....	.....	.....	.....
6	Cass	5,739	.84	4,835	9,806
7	Cavalier	113	1.43	162	128
8	Dickey	107	.46	50	88
9	Eddy	21	1.40	30	29
10	Emmons	93	1.00	93	127
11	Foster	.....	.....	.....	15
12	Grand Forks	3,877	1.01	3,922	4,472
13	Griggs	17	.47	8	58
14	Kidder	220	1.25	275	65
15	LaMoure	61	.61	37	144
16	Logan	.....	.....	.....	.....
17	McHenry	1	1.00	1	135
18	McIntosh	15	1.00	15	16
19	McLean	69	1.00	69	.....
20	Mercer	.....	.....	.....	.....
21	Morton	23	1.17	27	37
22	Nelson	64	1.79	115	80
23	Oliver	.....	.....	.....	.....
24	Pembina	1,384	1.45	2,015	1,669
25	Pierce	8	.25	2	67
26	Ramsey	127	1.06	125	53
27	Ransom	101	.67	68	127
28	Richland	1,824	.87	1,601	1,873
29	Rolette	6	1.33	8	25
30	Sargent	84	1.59	134	137
31	Stark	.....	.....	.....	.....
32	Steele	316	1.03	327	410
33	Stutsman	72	1.00	72	57
34	Towner	53	1.75	93	45
35	Traill	6,553	1.00	6,560	6 297
36	Walsh	1,747	1.33	2,336	2,294
37	Ward	.....	.....	.....	.....
38	Wells	.....	.....	.....	.....
39	Williams	.....	.....	.....	.....
40	Hettinger	.....	.....	.....	.....
41	Dunn, McKenzie, Allred, Wallace	.....	.....	.....	.....
	Totals	23,003	1.01	23,269	28,672

ROOTS OF ALL KINDS.

No.	COUNTIES.	1893.			1894.
		Acres Planted.	Average Yield —Bushels.	Total Product—Bushels.	Acres Planted.
1	Barnes	2	30.50	61	30
2	Benson	1	30.00	30	22
3	Billings	.....	.....	.....	5
4	Bottineau	5	14.00	70	....
5	Burleigh	36	51.44	1,852	86
6	Cass	56	120.94	6,773	201
7	Cavalier	16	152.31	2,437	19
8	Dickey	8	42.50	340	41
9	Eddy	2	50.00	100	1
10	Emmons	.....	.....	.....	.....
11	Foster	2	228.00	456	2
12	Frand Forks	35	95.14	3,330	82
13	Griggs	6	21.33	128	4
14	Kidder	.....	.....	.....	5
15	LaMoure	6	105.00	630	17
16	Logan	.....	.....	.....	1
17	McHenry	8	40.00	320	15
18	McIntosh	.....	.....	.....	.....
19	McLean	13	31.84	414	26
20	Mercer	1	20.00	20	3
21	Morton	23	68.95	1,586	43
22	Nelson	11	10.54	116	11
23	Oliver	.....	.....	.....	1
24	Pembina	18	244.44	4,400	23
25	Pierre	4	43.75	175	14
26	Ramsey	22	135.49	2,980	49
27	Ransom	4	255.00	1,020	24
28	Richland	16	50.75	812	42
29	Rolette	5	88.60	443	37
30	Sargent	15	28.46	427	32
31	Stark	7	10.85	76	29
32	Steele	4	228.75	915	20
33	Stutsman	1	360.00	360	94
34	Towner	12	101.91	1,223	25
35	Traill	11	215.45	2,370	36
36	Walsh	3	213.33	640	32
37	Ward	4	27.00	108	2
38	Wells	1	150.00	150	4
39	Williams	.....	.....	.....	.....
40	Hettinger	.....	.....	.....	.....
41	Dunn, etc	.....	.....	.....	.....
	Totals	358	97.44	34,887	1,078

PRAIRIE HAY AND GARDEN PRODUCTS.

No.	COUNTIES.	Tons of Prairie Hay Cut.		Value of Garden Products Sold.	
		1892.	1893.	1892.	1893.
1	Barnes	28,977	30,843	$ 1,544	$ 1,500
2	Benson	15,643	16,512	1,434	806
3	Billings	3,000	1,091	50	50
4	Bottineau	13,525	18,073	732	120
5	Burleigh	22,551	18,511	2,752	2,697
6	Cass	64,306	63,956	3,610	3,009
7	Cavalier	22,996	22 996	1,372	486
8	Dickey	36,318	29,410	3,105	1,696
9	Eddy	11,021	13,340	547	500
10	Emmons	23 984	23,953	500	684
11	Foster	7,820	8,598	283	446
12	Grand Forks	47,956	38,469	10,878	2,653
13	Griggs	17,420	17,404	5,881	273
14	Kidder	10,254	10,971	693	510
15	LaMoure	23,581	25,121	3,288	2,800
16	Logan	4.500	6,006	.....	.....
17	McHenry	38 821	43,659	874	828
18	McIntosh	22,335	21,542	283	.....
19	McLean	8,868	9,990	141	310
20	Mercer	8,070	not rept'd	222	.....
21	Morton	28,355	25,338	1,702	1,292
22	Nelson	27,163	27,218	1,154	1,067
23	Oliver	5,494	5,752	700	322
24	Pembina	36,655	42,270	2,811	2,510
25	Pierce	7,424	29,834	75	77
26	Ramsey	25,203	31,284	2,100	3,518
27	Ransom	26,248	27,223	1,124	927
28	Richland	48,926	99,181	10,749	12,700
29	Rolette	12,999	14,774	545	370
30	Sargent	36,979	31,385	595	490
31	Stark	12,386	12,006	810	738
32	Steele	23,935	25,214	964	331
33	Stutsman	23,222	24,496	18,619	3,180
34	Towner	9,871	12,429	441	260
35	Traill	42,447	31,884	1,964	2,137
36	Walsh	26,224	24,762	2,545	2,114
37	Ward	15,858	16,072	1,226	325
38	Wells	13,042	16,241	423	520
38	Williams	5,698	2,400	300	.....
40	Hettinger	2,216	.....	.....	.....
41	Dunn, etc	5,151	4,494	150	.....
	Totals	867,442	924,702	$ 87,186	$ 52,246

POULTRY AND EGGS, CHEESE AND BUTTER.

No.	COUNTIES.	Value of Poultry and Eggs Sold.		Cheese Made in Families—Pounds.	
		1892.	1893.	1892.	1894.
1	Barnes	$ 6,812	$ 5,800	1,701	7,130
2	Benson	1,294	1,597	650	50
3	Billings	.....	.....	.....	.....
4	Bottineau	1,311	1,003	100	150
5	Burleigh	6,449	5,609	735	1,400
6	Cass	9,743	12,026	10.966	2.675
7	Cavalier	4,228	4,380	5,395	12,265
8	Dickey	3,722	5,078	9,508	10,974
9	Eddy	1,114	1,245	3.621	3,220
10	Emmons	2,766	2,519	1,750	450
11	Foster	465	931	150	150
12	Grand Forks	13,943	11 386	1,420	1.227
13	Griggs	11,308	1,655	5,886	945
14	Kidder	585	844	.....	.....
15	LaMoure	3.294	2,414	65	3,755
16	Logan	.....	536	1,242	1,500
17	McHenry	2,090	2,375	3,750	2.036
18	McIntosh	1,519	1,638	2,398	6 730
19	McLean	908	828	655	900
20	Mercer	679	1,653	145	60
21	Morton	9,680	7,777	.....	675
22	Nelson	4,717	3 970	1,447	814
23	Oliver	808	831	950	200
24	Pembina	7.052	9,308	5 825	.....
25	Pierce	225	299	.....	.....
26	Ramsey	3.880	6,149	915	1,320
27	Ransom	3.515	3,363	3,556	1,508
28	Richland	30,168	32.650	4 540	4,135
29	Rolette	1,238	1,244	1,660	4,180
30	Sargent	5.914	4,656	1,288	3.270
31	Stark	2,203	921	.....	39,500
32	Steele	2,858	2,705	571	1.240
33	Stutsman	5,665	5.387	4 050	995
34	Towner	1,561	1,628	.....	45
35	Traill	5,556	4,149	2,914	740
36	Walsh	7,051	6,352	9,805	1.292
37	Ward	1.943	1,845	50	270
38	Wells	329	2,626	650	245
39	Williams	400	.....	.....	.....
40	Hettinger	15	.....	.....	.....
41	Dunn, etc	270	90	.....	.....
	Totals	$ 167,778	$ 159,467	88,358	116,046

POULTRY AND EGGS, CHEESE AND BUTTER—*Continued.*

No.	COUNTIES.	Butter Made in Families—Pounds.	
		1892.	1893.
1	Barnes	172,127	139,432
2	Benson	60,665	42,314
3	Billings	.....	.....
4	Bottineau	67,635	68,510
5	Burleigh	76,440	69,106
6	Cass	339,421	387,432
7	Cavalier	159,155	182,110
8	Dickey	125,861	166,360
9	Eddy	38,830	48,255
10	Emmons	47,159	51,685
11	Foster	25,835	26,600
12	Grand Forks	309,650	299,588
13	Griggs	93,414	73,807
14	Kidder	24,395	25,336
15	LaMoure	119,705	95,110
16	Logan	11,720	14,973
17	McHenry	42,674	45,105
18	McIntosh	79,696	61,552
19	McLean	23 068	24,065
20	Mercer	18,272	13,920
21	Morton	84,132	98,915
22	Nelson	139,169	144,255
23	Oliver	16,425	13,665
24	Pembina	317,716	261,965
25	Pierce	14,675	20,340
26	Ramsey	104,698	154,431
27	Ransom	139,087	143,681
28	Richland	204,887	251,892
29	Rolette	42,274	44,930
30	Sargent	141,750	150,102
31	Stark	30,983	15,991
32	Steele	124,735	158,060
33	Stutsman	114,820	128,360
34	Towner	37,615	25,672
35	Traill	204,357	215,703
36	Walsh	262,392	263,606
37	Ward	63,299	65,570
38	Wells	28,700	33,361
39	Williams	1,600	.....
40	Hettinger	875	.....
41	Dunn, McKenzie, Allred, Wallace	4,385	375
	Totals	3,914,296	4,026,134

MILK SOLD AND ANIMALS FATTENED AND KILLED

No.	COUNTIES.	Value of Milk Sold Other Than to Cheese Factories and Creameries		Value of Farm Animals Fattened and Killed.	
		1892.	1893.	1892.	1893.
1	Barnes	$ 1,807	$ 695	$ 44,804	$ 32,690
2	Benson	110	60	16,293	14,428
3	Billings	.....	.....	2.300	.....
4	Bottineau	.....	.....	14,673	11,832
5	Burleigh	2,095	2,500	18,498	21,365
6	Cass	5,194	1,726	97,849	104.873
7	Cavalier	182	25	47,275	54,349
8	Dickey	20	50	42,302	31,785
9	Eddy	13	6	14,633	11,565
10	Emmons	.....	.....	27,302	26,623
11	Foster	520	450	4,109	6,877
12	Grand Forks	27,235	13,188	80,409	77,963
13	Griggs	.....	.....	14,117	18,019
14	Kidder	180	.....	10,699	7,250
15	LaMoure	27	36	20,974	20,080
16	Logan	.....	.....	2,401	2,199
17	McHenry	.....	75	30,514	48,779
18	McIntosh	30	.....	15,702	16,850
19	McLean	.....	.....	8,031	10,255
20	Mercer	.....	.....	15,935	7,850
21	Morton	2,504	2,100	37,445	24,912
22	Nelson	300	200	28,730	27,604
23	Oliver	.....	.....	2,500	3,126
24	Pembina	175	3	78,626	81,241
25	Pierce	1,600	2,000	7,665	6,380
26	Ramsey	2,525	2,310	26,478	32,234
27	Ransom	239	667	23,406	21,787
28	Richland	.....	.....	63,680	65,630
29	Rolette	200	5	13,408	12,917
30	Sargent	205	90	29,803	28,477
31	Stark	1,195	1,600	8,558	4,052
32	Steele	1,803	836	32.819	33,962
33	Stutsman	2,802	3,845	35,652	34,053
34	Towner	.....	15	10,185	8,903
35	Traill	665	981	56,242	36,874
36	Walsh	182	527	74,504	65.932
37	Ward	5	200	10,067	31,375
38	Wells	.....	1,125	11,006	12,630
39	Williams	.....	.....	.....	20,000
40	Hettinger	.....	.....	4.705	.....
41	Dunn, etc	.....	.....	35,438	63,387
	Totals	$ 51,813	$ 35,315	$ 1,119,737	$ 1,141,108

SHEEP AND WOOL.

No.	COUNTIES.	Number of Sheep Sheared.		Number of Pounds of Wool Clipped.	
		1892.	1893.	1892.	1893.
1	Barnes	9,655	8,316	62,160	61,706
2	Benson	3,964	903	19,987	4,597
3	Billings	4,283	8,000	27,303	40,000
4	Bottineau	689	794	4,480	4,176
5	Burleigh	7,710	6,134	44,371	34,166
6	Cass	7,600	4,725	52,592	31,425
7	Cavalier	3,058	1,261	18,606	8,041
8	Dickey	9,870	5,476	59,220	32,691
9	Eddy	1,955	2,128	12,797	10,469
10	Emmons	17,653	16,870	98,892	101,051
11	Foster	3,075	1,654	21,920	10,814
12	Grand Forks	10,640	4,701	73,743	29,828
13	Griggs	2,220	1,934	14,107	8,422
14	Kidder	8,975	10,186	58,924	55,045
15	LaMoure	5,788	4,512	34,913	27,000
16	Logan	2,308	1,646	13,688	9,796
17	McHenry	18,248	17,987	111,979	93,935
18	McIntosh	1,317	1,489	9,063	10,586
19	McLean	2,524	3,573	14,388	22,724
20	Mercer	10,910	9,143	79,248	59,188
21	Morton	28,997	31,318	176,867	186,342
22	Nelson	13,363	6,678	80,466	40,795
23	Oliver	8,165	5,759	56,313	39,133
24	Pembina	6,730	7,129	38,094	45,696
25	Pierce	4,025	1,448	25,045	9,554
26	Ramsey	4,216	3,260	28,774	19,988
27	Ransom	4,150	3,144	20,788	21,630
28	Richland	3,488	4,098	19,736	25,080
29	Rolette	2,936	752	15,021	4,390
30	Sargent	2,894	1,417	18,008	8,653
31	Stark	18,824	16,276	132,690	97,656
32	Steele	2,689	2,576	17,580	15,584
33	Stutsman	20,963	12,899	123,110	81,134
34	Towner	502	440	3,019	3,226
35	Traill	2,577	2,318	17,730	12,146
36	Walsh	4,495	4,345	27,614	23,028
37	Ward	7,728	13,522	52,860	82,484
38	Wells	4,866	4,351	21,618	18,645
39	Williams	10,453	17,129	62,718	102,874
40	Hettinger	11,621	.....	75,070	.....
41	Dunn, etc	11,563	9,308	76,800	55,848
	Totals	307,687	259,599	1,922,302	1,549,540

NUMBER OF FARMS AND ACREAGE.

No.	COUNTIES.	1893.		
		No. of Farms.	Acres Under Cultivation.	Total No. of Acres in Farms.
1	Barnes	800	205,066	326,011
2	Benson	576	70,566	135,815
3	Billings	8	65	65
4	Bottineau	692	66,975	137,030
5	Burleigh	682	35,240	95,460
6	Cass	1,891	579,008	713,151
7	Cavalier	1,792	113,105	222,753
8	Dickey	782	178,864	303,760
9	Eddy	330	48,111	76,865
10	Emmons	523	43,000	119,764
11	Foster	224	50,714	75,239
12	Grand Forks	2,071	404,024	564,470
13	Griggs	790	73,808	133,542
14	Kidder	242	*35,000	63,701
15	LaMoure	600	100,757	188,926
16	Logan	132	*12,751	29,718
17	McHenry	371	16,183	58,133
18	McIntosh	640	79,963	209,530
19	McLean	670	9,600	143,371
20	Mercer	115	*5,991	18,706
21	Morton	582	33,102	112,182
22	Nelson	853	104,352	216,723
23	Oliver	91	*3,500	15,249
24	Pembina	2,673	307,190	454,250
25	Pierce	295	19,127	46,194
26	Ramsey	793	110,105	209,645
27	Ransom	670	127,171	203,245
28	Richland	1,420	258,229	402,645
29	Rolette	445	42,595	98,466
30	Sargent	993	150,899	254,717
31	Stark	188	20,229	65,359
32	Steele	729	143,415	215,261
33	Stutsman	503	85,272	150,028
34	Towner	261	66,099	102,461
35	Traill	1,169	345,271	444,539
36	Walsh	2,066	308,909	441,781
37	Ward	210	4,383	44,229
38	Wells	339	51,752	104,569
39	Williams	26	791	4,640
40	Hettinger	19	228	unsurvey'd
41	Dunn, McKenzie, Allred, Wallace	63	2,421	6,240
	Totals	28,319	4,313,831	7,209,233

*Estimated. County Auditor's report gives smaller acreage than is in crop.

NUMBER OF FARMS AND ACREAGE—*Continued.*

No.	COUNTIES.	1894.		
		No. of Farms.	Acres Under Cultivation.	Total No. of Acres in Farms.
1	Barnes	1,150	203,468	328,981
2	Benson	546	73,653	142,707
3	Billings	23	91	91
4	Bottineau	604	73,111	146,664
5	Burleigh	748	36,916	95,460
6	Cass	1,887	605,123	742,351
7	Cavalier	1,537	119,787	245,984
8	Dickey	782	165,590	260,460
9	Eddy	324	51,919	94,769
10	Emmons	526	*48,000	122,626
11	Foster	205	50,507	71,743
12	Grand Forks	2,017	410,648	573,436
13	Griggs	790	77,556	134,116
14	Kidder	230	30,901	57,152
15	LaMoure	695	108,518	169,685
16	Logan	153	*17,017	37,497
17	McHenry	440	16,580	64,577
18	McIntosh	718	74,070	187,580
19	McLean	670	8,767	143,371
20	Mercer	134	*6,781	19,335
21	Morton	582	41,500	112,982
22	Nelson	823	101,528	210,310
23	Oliver	92	3,732	16,692
24	Pembina	3,500	309,934	441,338
25	Pierce	348	25,314	55,262
26	Ramsey	764	*114,059	228,527
27	Ransom	727	*145,621	257,456
28	Richland	1,481	272,813	412,050
29	Rolette	441	42,860	100,830
30	Sargent	958	159,431	258,070
31	Stark	324	26,412	69,410
32	Steele	747	153,316	224,660
33	Stutsman	528	90,551	168,482
34	Towner	390	83,461	119,381
35	Traill	1,169	364,006	469,633
36	Walsh	2,179	335,704	480,441
37	Ward	282	3,317	41,931
38	Wells	431	65,482	136,142
39	Williams	20	*500	3,200
40	Hettinger	.....	.....	.....
41	Dunn, McKenzie, Allred, Wallace.	58	*1,702	3,505
	Totals	30,023	4,520,246	7,448,887

*Estimated. County Auditor's report gives smaller acreage than is in crop.

TOTAL ACRES IN CROP AND CULTIVATED TIMBER.

No.	COUNTIES.	Total Acreage in Crop, Including Tame Grasses.		Cultivated Timber, One Year Old and Over.	
		1893.	1894.	1893.	1894.
1	Barnes	181,226	180,891	1,079	2,435
2	Benson	64,852	68,309	592	609
3	Billings	30	83	...	...
4	Bottineau	59,381	58,749	225	342
5	Burleigh	31,475	32,626	412	373
6	Cass	560,683	581,224	1,961	3,621
7	Cavalier	105,937	117,100	309	356
8	Dickey	163,524	151,971	7,694	1,834
9	Eddy	37,591	45,802	940	940
10	Emmons	37,942	43,958	55	68
11	Foster	39,772	44,171	399	324
12	Grand Forks	354,418	361,119	2,695	3,768
13	Griggs	63,257	70,811	465	511
14	Kidder	33,467	29,362	280	187
15	LaMoure	94,442	106,742	832	1,985
16	Logan	12,588	16,750	35	244
17	McHenry	13,691	13,702	175	189
18	McIntosh	65,051	72,864	1,747	1,760
19	McLean	9,042	8,767	251	251
20	Mercer	5,816	6,651	...	55
21	Morton	31,306	40,584	277	199
22	Nelson	87,511	97,495	878	867
23	Oliver	3,263	3,719	8	48
24	Pembina	272,480	282,085	645	964
25	Pierce	18,034	20,794	85	193
26	Ramsey	101,527	110,430	700	671
27	Ransom	126,254	137,127	882	1,000
28	Richland	255,009	271,875	2,801	2,804
29	Rolette	33,615	36,638	250	433
30	Sargent	140,860	148,415	1,240	1,311
31	Stark	18,920	21,087	266	218
32	Steele	135,209	143,023	1,228	1,240
33	Stutsman	76,356	86,984	817	1,051
34	Towner	65,188	70,366	295	319
35	Traill	318,593	330,915	2,618	2,632
36	Walsh	294,204	313,789	2,339	2,758
37	Ward	3,591	1,932	...	...
38	Wells	48,921	64,529	1,185	232
39	Williams	513	493	...	...
40	Dunn, etc	1,674	1,645	...	...
	Totals	3,967,213	4,195,576	36,660	36,792

WHEAT—ACREAGES FOR THE YEARS NAMED.

COUNTIES.	1888.	1889.	1890.	1891.	1892.	1893.
Barnes	100,795	83,416	110,498	121,357	125,087	133,716
Benson	19,249	30,339	36,140	31,695	41,820	49,381
Billings	.....	.....	.....	.....	.....	.....
Bottineau	11,732	29,921	35,861	40,072	49,154	48,494
Burleigh	18,313	19,590	14,955	17,283	21,095	21,231
Cass	368,728	376,032	434,725	500,796	462,235	446,998
Cavalier	42,528	60,338	66,399	67,108	58,022	59,632
Dickey	62,099	79,543	96,327	108,955	112,474	119,503
Eddy	22,183	28,367	30,935	26,300	27,094	27,884
Emmons	7,670	8,356	9,956	15,872	25,586	22,631
Foster	22,013	25,976	24,415	24,957	27,320	29,496
Grand Forks	206,421	221,801	246,887	271,886	255,062	282 270
Griggs	36,618	44,126	37.471	39,040	44,487	47,187
Kidder	24,891	26,159	22,690	25,107	25,011	24,739
LaMoure	46,031	46,948	49,026	56,670	62,884	67,412
Logan	1,386	1,681	3,029	4,744	10,766	8,103
McHenry	2,029	5,234	6,570	6,931	10,453	10,243
McIntosh	10,392	17,213	29,653	33,513	55,000	43,056
McLean	4,842	4,547	3,682	4 383	5,896	5,353
Mercer	464	1,114	1.337	2,137	3,211	3,163
Morton	8,361	10,314	8,943	12,403	17,466	20,355
Nelson	55,320	74,496	61,267	57,769	61,061	63,395
Oliver	649	842	592	674	1,314	1,260
Pembina	173,798	201,450	215,507	218,066	205,430	209,412
Pierce	6,760	10,796	12,744	9,874	12,425	14,577
Ramsey	66,967	71,584	84,681	72,199	77,130	77,568
Ransom	81,288	60,851	63,657	82.469	93,604	102,079
Richland	110,186	127,831	151,443	157,184	166.457	195,945
Rolette	9,677	18,788	20,775	21,659	25,521	26,493
Sargent	61,355	72,435	85,218	99,320	105,597	110,105

Stark	5,242	7,806	6,712	7,109	11,489	12,416
Steele	72,910	78,152	78,261	82,102	92,901	105,158
Stutsman	42,975	32,265	52,517	57,407	55,753	54,561
Towner	22,459	42,745	40,195	38,446	37,439	49,412
Traill	227,712	223,624	227,511	269,426	260,255	255,667
Walsh	187,523	181,841	222,461	236,673	196,299	233,616
Ward	1,932	3,385	2,935	876	2,079	1,631
Wells	17,931	21,568	20,339	24,416	32,265	34,207
Williams	.....	.....	.....	220	17	16
UNORGANIZED—						
Hettinger	.....	.....	.....	27	11	.....
Dunn, McKenzie, Allred and Wallace	.....	.....	.....	.....	919	888
Totals	2,161,429	2,351,474	2,616,314	2,847,125	2,878,089	3,019,253

WHEAT—BUSHELS RAISED FOR THE YEARS NAMED.

COUNTIES.	1888.	1889.	1890.	1891.	1892.	1893.
Barnes	719,225	669,603	1,170,833	1,965,983	1,843,350	1,096,471
Benson	155,872	162,901	276,070	748,543	647,087	671,581
Billings	.....	.....	.....	.....	.....	.....
Bottineau	94,795	121,469	214,075	877,580	795,489	344,317
Burleigh	176,641	116,189	147,154	303,490	278,079	174,401
Cass	3,179,093	3,008,256	5,648,660	8,637,062	6,155,098	4,391,390
Cavalier	517,691	455,277	815,444	1,261,630	761,992	1,009,974
Dickey	847,247	515,693	341,692	1,851,980	1,311,604	642,927
Eddy	133,965	119,073	218,760	509,216	394,137	321,252
Emmons	63,885	58,603	72,021	292,521	303,676	181,056
Foster	216,885	129,650	202,333	679,579	333,384	321,519
Grand Forks	2,169,396	3,467,774	3,000,945	6,924,540	3,233,623	3,498,984
Griggs	190,992	305,014	359,262	966,240	694,063	375,371
Kidder	220,141	74,726	115,164	245,044	286,280	121,997
LaMoure	530,798	168,397	309,476	927,121	759,874	408,158
Logan	13,840	9,715	11,714	89,567	80,065	48,869
McHenry	20,746	25,885	9,208	159,413	117,170	65,716
McIntosh	125,715	104,372	72,606	475,981	521,114	336,531
McLean	49,313	24,454	46,145	106,173	70,445	48,216
Mercer	3,895	2,450	15,170	52,378	35,107	10,406
Morton	84,212	76,324	97,679	310,752	248,648	178,097
Nelson	295,480	301,269	432,054	1,518,289	902,900	621,757
Oliver	5,795	2,944	4,822	17,098	24,343	12,927
Pembina	2,089,206	2,430,148	3,211,237	4,708,542	2,760,525	2,569,313
Pierce	66,600	39,743	32,607	221,375	187,949	133,008
Ramsey	418,468	175,513	431,328	1,643,984	1,194,495	929,586
Ransom	942,092	447,436	362,136	1,448,641	1,304,278	705,696
Richland	1,086,674	2,460,746	1,521,750	3,450,518	2,852,239	1,903,557
Rolette	70,867	87,303	124,331	403,896	391,604	246,963
Sargent	831,792	629,243	352,777	1,532,508	1,538,580	812,793

Stark	58,543	89,769	64,515	190,024	127,091	52,688
Steele	594,053	645,665	800,530	1,831,836	1,300,171	1,273,115
Stutsman	339,786	205,846	440,443	1,095,900	684,100	501,079
Towner	75,073	299,215	253,491	802 752	649,970	625,029
Traill	2,174.568	2,318.531	3 407.566	5,951,620	3,819 931	3 298,006
Walsh	2,284,392	2,260,976	2,785.083	5,587,850	2,858,310	3,428.966
Ward	19,527	10,054	3,891	21,018	25,810	7,195
Wells	184,335	81,222	181,639	544,151	439,527	359,468
Williams	.....	.....	.....	3,960	328	321
UNORGANIZED—						
Hettinger	.....	.....	.....	340	174	.....
Dunn, McKenzie, Allred and Wallace	.....	.....	.....	.....	10,736	3,469
Totals	21,051,598	22,101,448	27,554,611	58,359,095	39,943,346	31,732,169

WHEAT—AVERAGE YIELDS FOR THE YEARS NAMED.

COUNTIES.	1888.	1889.	1890.	1891.	1892.	1893.	Average for six Years.
Barnes	7.14	8.03	10.60	16.20	14.74	8.20	11.06
Benson	8.10	5.37	7.64	23.61	15.47	13.59	12.76
Billings	.....	.....	.....	.....	.....	.....	.....
Bottineau	8.08	4.06	5.97	21.89	16.18	7.10	11.37
Burleigh	9.65	5.93	9.85	17.55	13.18	8.21	10.63
Cass	8.62	8.00	12.99	17.25	13.32	9.82	11.97
Cavalier	12.17	7.55	12.28	18.80	13.13	16.93	13.62
Dickey	13.64	6.48	3.55	16.99	11.66	5.38	9.52
Eddy	6.04	4.20	7.07	19.36	14.55	11.52	10.42
Emmons	8.33	7.01	7.23	18.43	11.87	8.00	10.78
Foster	9.85	4.99	8.29	27.23	12.20	10.90	12.21
Grand Forks	10.50	15.63	12.15	25.46	12.68	12.39	15.02
Griggs	5.22	6.91	9.59	24.75	15.60	7.95	11.61
Kidder	9.25	2.86	5.08	9.76	11.45	4.93	7.15
LaMoure	11.53	3.59	6.31	16.36	12.08	6.05	9.43
Logan	9.99	5.78	3.87	18.88	7.44	6.03	8.54
McHenry	10.22	4.95	1.40	23.00	11.21	6.41	9.60
McIntosh	12.10	6.06	2.45	14.20	9.47	7.81	8.66
McLean	10.18	5.38	12.53	24.22	11.95	9.00	12.01
Mercer	8.39	2.20	11.35	24.51	10.93	3.28	10.45
Morton	10.19	7.40	10.92	25.05	14.24	8.74	12.79
Nelson	5.34	4.04	7.05	26.28	14.79	9.80	10.90
Oliver	8.93	3.50	8.15	25.36	18.53	10.25	12.74
Pembina	12.02	12.06	14.90	21.13	13.44	12.26	14.52
Pierce	9.85	3.68	2.56	22.42	15.13	9.12	10.14
Ramsey	6.25	2.45	5.09	22.77	15.49	11.98	10.65
Ransom	11.59	7.37	5.69	17.56	13.93	6.91	10.76
Richland	9.86	19.25	10.05	21.95	17.13	9.71	14.60
Rolette	7.32	4.65	5.98	18.64	15.34	9.32	10.77
Sargent	13.56	8.69	4.14	15.43	14.57	7.38	10.66
Stark	11.16	11.50	9.61	26.73	11.06	4.24	11.47
Steele	8.14	8.26	10.23	22.31	14.00	12.10	12.65
Stutsman	7.91	6.38	8.39	19.09	12.27	9.18	11.05
Towner	3.34	7.00	6.31	20.88	17.36	12.64	11.72
Traill	9.55	10.37	14.98	22.09	14.68	12.89	14.32
Walsh	12.18	12.43	12.52	23.61	14.56	14.67	15.26
Ward	10.10	2.97	1.33	23.99	12.41	4.41	6.80
Wells	10.28	3.77	8.93	22.28	13.62	10.50	11.87
Williams	.....	.....	.....	*18.00	19.29	20.06	†18.22
UNORGANIZED—							
Hettinger	.....	.....	.....	12.59	15.82	.....	‡13.53
Dunn, etc	.....	.....	.....	.....	11.68	3.91	‡7.86
Totals	9.74	9.40	10.53	20.48	13.88	10.51	12.65

* Estimated. † Average for three years. ‡ Average for two years. For one year.

OATS—ACREAGES FOR THE YEARS NAMED.

COUNTIES.	1888.	1889.	1890.	1891.	1892.	1893.
Barnes	21,139	17,566	23 529	21,890	22,387	29,587
Benson	3,717	5.028	5,376	4,040	6,277	9,045
Billings	90	.....	.....	.....	.....	.....
Bottineau	2,580	4,910	3,954	2,798	5,493	8 152
Burleigh	6,988	6.006	4,597	4 426	5,219	5,623
Cass	55,433	59,130	62,365	65,251	56,544	65,888
Cavalier	10.162	10,330	10.865	16,065	18,067	26,697
Dickey	15.613	16,194	33,101	12,099	9,467	13,835
Eddy	3,832	5.492	5,113	4,484	5,094	5,789
Emmons	2,476	2,930	2,274	4,321	3,449	4,505
Foster	4.193	4.410	4.278	5.637	5,047	5,826
Grand Forks	33 475	25,749	38,452	37,642	35,677	40,468
Griggs	6,013	7,488	7,110	6,925	6,558	8,029
Kidder	3.806	4.596	3.597	3.223	3,490	3,764
LaMoure	9,998	9.503	7,298	6,599	8,042	9,106
Logan	447	319	596	647	1,047	1,080
McHenry	1.475	2,328	1,660	857	1,880	2,589
McIntosh	4,023	5,153	5,759	4,391	6,583	5,888
McLean	2,396	1.959	1,434	1 553	1,979	2,087
Mercer	350	469	416	817	877	1.296
Morton	4,024	3.733	2,659	3,367	4.449	5,958
Nelson	8,544	11.665	9,095	9,205	9,468	11,394
Oliver	761	764	408	593	869	1,182
Pembina	25,963	27.244	26,633	34,546	32,102	32,670
Pierce	1,012	1,158	1,440	785	1,474	2,119
Ramsey	10,391	11.455	11.777	9,264	10,574	12,582
Ransom	19.101	13,298	11,154	9,146	10,034	11,507
Richland	23,671	25,814	24,498	29,840	35,566	37,415
Rolette	3,269	3.796	3.306	2,758	4,612	5,379
Sargent	12,759	13.966	21.093	9.358	12,413	16,017
Stark	2,838	4,100	1,815	2,127	4,610	3,975
Steele	13 175	14,230	12,486	14,480	13,646	16,251
Stutsman	8 801	6,821	10.856	11,538	10,309	11,354
Towner	4,229	5,374	10,178	5,903	7,942	10 277
Traill	27,588	27,355	32,683	33,689	31,041	33,205
Walsh	31,039	28,265	31.067	33,341	28 479	32,219
Ward	1.259	1.278	829	231	684	1,261
Wells	3,588	4 209	4.117	4,717	6,429	7,520
Williams	.....	.....	.....	200	442	398
UNORGANIZED—						
Hettinger	.....	.....	.....	133	68	.....
Dunn, etc	.....	.....	.....	.....	446	510
Totals	390,018	394,085	437,868	418,886	428,825	502,447

OATS.—BUSHELS RAISED FOR THE YEARS NAMED.

COUNTIES.	1888.	1889.	1890.	1891.	1892.	1893.
Barnes	334,015	202,362	494,253	631,645	713,545	491,144
Benson	106,876	40,711	48,183	170,000	217,741	202,604
Billings	900	.....	.....	.....	.....	.....
Bottineau	46,852	13,498	23,271	124,371	122,414	93,759
Burleigh	163,250	54,703	62,730	178,943	125,050	70,931
Cass	1,706,187	1,350,135	1,724.940	2,155,241	1,928,268	1,583.642
Cavalier	326,632	94,332	59.085	777,385	546,731	694 517
Dickey	359,640	118,385	66,113	202,880	299,787	127,101
Eddy	122,806	146,452	66,354	173,119	152,510	110.876
Emmons	57,528	83,993	20,246	118,223	71,936	59.069
Foster	127,628	38,645	59,303	178,545	150,359	107,198
Grand Forks	1,120,018	743,454	473,045	1,564,988	1,272,117	1,158,748
Griggs	206,569	95,892	102,887	234,965	213,514	88,953
Kidder	105,235	14,573	34,666	83,862	70,546	29,295
LaMoure	258.514	56,670	78,772	217,636	202,067	115,824
Logan	11,358	3,602	3,143	22,637	15,506	10,977
McHenry	32,389	13,930	6,940	36,390	47,250	21,338
McIntosh	89,931	46,981	20,444	81.207	105,753	78,920
McLean	50,060	22,144	22,441	69,556	40,368	28,591
Mercer	4,729	2,212	7.973	31.863	22,026	4,511
Morton	77,908	55,254	40,958	143,490	118,397	63,033
Nelson	290,245	70.172	111,312	337,639	327,448	229,065
Oliver	13,388	1,944	5,345	23,010	24,340	19,621
Pembina	957.872	371,451	859,936	1,450,932	1,056,045	581,526
Pierce	20,240	3,962	3,188	41,793	50,284	31,846
Ramsey	345,675	24,046	76,573	375,242	383,579	289,454
Ransom	484,465	109,983	106,987	254,998	326,456	164,779
Richland	614,208	645,350	520,534	1,058,527	1,250.912	804,469
Rolette	65,150	23,559	29,424	94,567	148,000	87,203
Sargent	366,444	139,041	92,145	284,670	435,388	231,894

Stark	79,654	71,750	28,573	101,033	57,926	14,318
Steele	451,728	178,598	268,644	408,531	494,369	414,428
Stutsman	259,219	68,208	189,669	404,292	279,650	227,704
Towner	117,032	56,427	56,291	248,516	279,541	247,627
Traill	953,001	411,509	957,898	1,146,774	1,103,641	873,298
Walsh	915,865	358,253	639 890	1,281,961	962,943	988,941
Ward	23,203	7,151	2,345	10,833	19,957	8,456
Wells	95,760	36,185	61,107	203,813	181,360	131,374
Williams	.....	.....	.....	6,000	19,885	7,841
UNORGANIZED—						
Hettinger	.....	.....	.....	2,880	1,390	.....
Dunn, McKenzie, Allred, Wallace	.....	.....	.....	.....	8,684	3,576
Totals	11,362,174	5,775,517	7,425,611	14,932,957	13,847,683	10,498,451

OATS—AVERAGE YIELDS FOR THE YEARS NAMED.

COUNTIES.	1888.	1889.	1890.	1891.	1892.	1893.	Average for Six Years.
Barnes	15.80	11.52	21.00	28 86	31.87	16.60	21.06
Benson	28.70	8.09	8.96	42 07	34.69	22.40	23.47
Billings	10.00	.....	.....	.....	.....	.....	*10.00
Bottineau	18.15	2 74	5.88	44.45	22 29	11.50	15.21
Burleigh	23.36	9.10	13 64	40.43	23.96	12.61	19.91
Cass	30.67	22 83	27.65	33.03	34 10	24 03	28.65
Cavalier	32.14	9.13	5.43	48 39	30.26	26.01	27 14
Dickey	23.03	7 31	1.99	16.76	31 67	9.19	11.70
Eddy	32 04	26 66	12.97	38 58	29.94	19.15	25 90
Emmons	23.23	28.66	8.90	27.36	20.86	13 11	20.59
Foster	30 43	8.76	13.86	31 67	29.79	18.40	22.51
Grand Forks	33.45	28.87	12.30	41.57	35.66	28.63	29.94
Griggs	34.35	12 80	14.47	33 93	32.56	11.07	22.38
Kidder	27.64	3.17	9.63	26.02	20 21	7.78	15.04
LaMoure	25.85	5.96	10.79	32.98	25.13	12 71	18 38
Logan	25.40	11.29	5.27	34.98	14.81	10.16	16 25
McHenry	21.95	5 98	4.18	42.46	25.13	8.24	14.66
McIntosh	22.35	9.11	3.54	18.49	16.06	13.40	13 31
McLean	20.89	11.30	15.64	44.78	20.49	13.70	20 45
Mercer	13.51	4.71	19.16	39.10	25.12	3.48	17 35
Morton	19 36	14 80	15.40	42.61	26 61	10 57	20.63
Nelson	33.97	6.01	12.23	36 68	34.57	20 10	23.00
Oliver	17.59	2 54	13.10	38 80	28 01	16.59	19.14
Pembina	36.89	13 63	32.28	42 00	32.90	17.80	29 45
Pierce	20.00	3 42	2.21	53 24	34.11	15 02	18 94
Ramsey	33.26	2 09	6 50	40.50	36.28	23 00	22.63
Ransom	25.36	8.26	9.59	27.88	32.53	14.31	19.49
Richland	25.94	25.00	21.24	35.47	35.17	21.50	27.68
Rolette	19.92	6 20	8.90	34.29	32.09	16.21	19 45
Sargent	28.72	9 95	4.36	30.42	35.08	14.47	18.10
Stark	28.06	17.50	15 74	47 50	12 57	3.60	18 14
Steele	34 28	12.55	21.51	28.21	36.23	25 50	26.30
Stutsman	29.45	9.99	17.47	35.04	27.13	20.05	23.94
Towner	27 67	10 50	5.53	42.10	35 20	24.09	22 90
Traill	34.54	15 04	29 30	34 04	35.55	26 30	29.34
Walsh	29 50	12.67	20.59	38 45	33 81	30.69	27 91
Ward	18.42	5.59	2.82	46.89	29.18	6.71	12.98
Wells	26.68	8.59	14.84	43 20	28 21	17 46	23 20
Williams	.....	.....	.....	30.00	44.99	19.70	32.43
UNORGANIZED—							
Hettinger	.....	.....	.....	21.65	20.44	.....	†21.24
Dunn, etc	.....	.....	.....	.....	19.47	7.01	†12 82
The State	29.13	14 66	16.96	35.65	32.29	20 89	24.43

*For one year. †For two years.

BARLEY—ACREAGES FOR THE YEARS NAMED.

COUNTIES.	1888.	1889.	1890.	1891.	1892.	1893.
Barnes	4,995	6,257	6,103	6,601	9,814	10,878
Benson	518	980	794	1,153	3,438	4,757
Billings	.....	.....	.....	.....	.....	.....
Bottineau	90	231	204	1,281	1,225	2,024
Burleigh	366	303	159	184	190	270
Cass	6,617	13,082	8,675	12 860	31,240	26.018
Cavalier	3,782	4.477	3,985	9,706	16,612	18,551
Dickey	5,537	5,407	2,948	3,917	9,098	12,159
Eddy	799	1,392	706	788	1,136	1,309
Emmons	565	1,036	550	383	617	965
Foster	513	1,241	737	1,122	1,306	1,915
Grand Forks	10,196	14,990	14,775	18,163	16,606	17,113
Griggs	1,796	4,042	3,434	3,015	3,417	3,988
Kidder	459	674	519	1,248	1,455	2,482
LaMoure	1,534	2,482	1,148	1,720	2,887	3,781
Logan	56	86	175	230	448	405
McHenry	119	441	189	104	428	469
McIntosh	681	1,150	1,085	821	1,581	2,151
McLean	100	111	105	88	134	608
Mercer	44	82	61	124	159	229
Morton	176	240	138	138	166	319
Nelson	2,092	2,761	3,870	5,026	7,036	8,258
Oliver	18	36	4	32	33	52
Pembina	10,579	13,522	12,660	22,950	21,646	25,249
Pierce	.....	161	231	195	475	907
Ramsey	2,291	2,916	4,708	3,799	7,748	10,129
Ransom	1,167	688	550	1,079	3,225	5,350
Richland	2,728	2,946	3,162	4,900	6,300	8,588
Rolette	571	510	223	579	1,415	1,566
Sargent	2,526	2,217	2,133	3,000	4,729	6 017
Stark	133	325	105	136	101	195
Steele	1,180	1,827	2,291	2,807	5,158	7,166
Stutsman	1,575	2,416	2,751	3,029	4,557	5,130
Towner	405	654	520	2,025	3,741	5,068
Traill	3,711	7,235	6,344	11,094	13,571	13,338
Walsh	5,734	7,514	10,617	14,397	17,416	17,130
Ward	58	99	64	25	78	59
Wells	76	282	520	950	2,082	2,599
Williams	.....	.....	.....	.....	10	13
UNORGANIZED—						
Hettinger	.....	.....	.....	41	6	.....
Dunn, etc	.....	.....	.....	.....	16	45
Totals	73,787	104,813	97,234	139,710	201,300	227,250

BARLEY--BUSHELS RAISED FOR YEARS NAMED.

COUNTIES.	1888.	1889.	1890.	1891.	1892.	1893.
Barnes	136,304	59,203	119,508	189,185	272,805	140,326
Benson	13,013	4,752	6,786	36,526	86,750	89,432
Billings	.....	.....	.....	.....	.....	.....
Bottineau	1,196	722	1,180	38,776	31,264	22,473
Burleigh	2,694	1,620	1,772	3,888	3,107	2,462
Cass	167,270	261,640	186,530	426,464	686,746	457,150
Cavalier	92,912	37,444	75,710	310,107	383,470	400,162
Dickey	123,721	30,573	18,271	100,679	285,459	83,668
Eddy	14,947	24,592	6,851	23,864	32,695	16,767
Emmons	11,254	24,864	4,042	6,764	11,819	9,271
Foster	12,593	8,144	9,018	34,206	35,883	31,406
Grand Forks	259,160	349,254	293,178	584,072	438,770	333,545
Griggs	39,667	31,080	41,664	116,798	97,106	53,456
Kidder	11,424	1,667	4,688	30,289	32,760	18,723
LaMoure	38,207	13,211	12,196	58,858	70,151	38,188
Logan	1,560	775	1,697	7,039	5,749	3,613
McHenry	2,244	2,847	1,131	3,137	9,206	5,062
McIntosh	15,882	5,413	2,941	18,188	33,177	52,189
McLean	2,074	1,250	1,338	3,449	2,918	10,896
Mercer	506	125	1,044	5,704	2,267	1,769
Morton	1,758	1,800	1,909	4,571	3,820	3,772
Nelson	42,048	20,923	41,503	167,014	175,653	112,323
Oliver	228	35	32	1,079	740	841
Pembina	299,405	296,657	313,761	795,600	702,815	658,998
Pierce	.....	436	581	9,175	13,495	9,344
Ramsey	72,047	5,421	46,001	124,531	224,384	179,700
Ransom	27,067	5,228	6,303	36,951	96,758	57,346
Richland	63,336	92,062	60,740	165,963	195,900	137,504
Rolette	6,546	2,093	2,917	19,495	31,312	16,122
Sargent	53,822	15,779	18,181	72,786	129,989	66,202

Stark	3,527	6,500	1 785	3,801	1,728	994
Steele	29,970	19,730	33,142	86,438	142,212	116,000
Stutsman	40,053	20,590	36,448	84,630	99.510	75.918
Towner	7,161	6,213	5,604	56,113	115,764	89,743
Traill	103,296	81,613	173,432	333,597	351.307	264,187
Walsh	147,337	133,816	217,079	576,168	500,499	385,516
Ward	750	231	95	1,144	1,100	781
Wells	2,915	1,513	7,216	29,344	43,452	46,791
Williams	.....	.....	.....	.....	234	358
UNORGANIZED—						
Hettinger	.....	.....	.....	850	79	.....
Dunn, McKenzie, Allred and Wallace	.....	.....	.....	.....	286	238
Totals	1,847,894	1,569,816	1,756,274	4,567,253	5,353,139	3,993,263

BARLEY—AVERAGE YIELDS FOR THE YEARS NAMED.

COUNTIES.	1888.	1889.	1890	1891.	1892.	1893.	Average for Six Years.
Barnes	27 28	9.46	12 58	28 66	27.80	12.90	20.54
Benson	25.12	4.84	8.54	31.67	25.23	18.80	20.38
Billings	.....	.....	.....	.....	.....	.....	.....
Bottineau	13 28	3.12	5 78	30.27	25 52	11 10	18.91
Burleigh	7.36	5.34	11.81	21 13	16 35	9 11	10.62
Cass	25 28	20 00	21.50	33 16	21.98	17.57	22.19
Cavalier	24.56	8.36	18.99	31 95	23.08	21 57	22.75
Dickey	22 34	5 65	6 19	25.70	31 38	6 88	16.44
Eddy	18 71	17 66	9.70	30.28	28 78	12.81	19.52
Emmons	19.91	24.00	7 34	17.66	19.16	9 61	16 52
Foster	24.54	6.56	12 23	30 48	27.48	16.40	19.20
Grand Forks	25.41	23.29	19 84	32.16	26 42	19.49	24.58
Griggs	22.08	7.68	12.13	38.74	28 42	13 41	19.28
Kidder	24.88	2.47	9.03	24 27	22 52	7 54	14.56
LaMoure	24.90	5 32	10 62	34.22	24.30	10.10	17.03
Logan	27.85	9.01	9 69	30.60	12 83	8.92	14 59
McHenry	18.85	6.45	5.98	30.16	21.51	10 79	13.50
McIntosh	23 32	4.70	2.71	22.15	20.98	24 26	17.10
McLean	20.74	11 26	12 74	39.19	21.77	17 92	19.13
Mercer	11.50	1.52	17.11	46 00	14.26	7.72	16.33
Morton	9.98	7.50	13.83	33.12	23.01	11 82	14 98
Nelson	20.09	7.57	10.72	33.23	24.96	13 60	19.26
Oliver	12 66	.97	8.00	33.71	22.42	16 17	16.88
Pembina	28.30	21 93	24.78	34 66	32.47	26 10	28 77
Pierce	.....	2.70	2.51	47.05	28.41	10.30	*16.77
Ramsey	31.44	1.85	9 77	32.78	28.96	17.74	20.64
Ransom	23.19	7.87	11 46	34.24	30.00	10.71	19 04
Richland	23 21	31 24	19 20	33 87	31 10	16.01	24.99
Rolette	11.46	4.10	13.08	33.92	22 13	10 29	16 13
Sargent	21 30	7.11	8 52	24 23	27.49	11 00	17.29
Stark	26 51	20.00	17.00	27 95	17.11	5.10	18 42
Steele	25 40	10.79	14.46	30.86	27.57	16.18	20.93
Stutsman	25.43	8.52	13.24	27.94	21.84	14 80	18 35
Towner	17.68	9.50	10.77	27.71	30.94	17.71	22.60
Traill	27 83	11.28	27.33	30 07	25.89	19.81	23.60
Walsh	25.69	17.80	20.44	40.02	28.74	22.50	26.92
Ward	12.93	2 33	1.48	45.76	14.10	13.24	10.70
Wells	38.35	5 36	13.87	30.88	20 87	18.00	20.16
Williams	.....	.....	.....	.....	.....	27.52	†27 52
UNORGANIZED—							
Hettinger	.....	.....	.....	20.73	13 17	.....	‡19.77
Dunn, etc	.....	.....	.....	.....	17.87	5 29	‡ 8 59
The State	25 04	14.98	18.06	32.69	26.59	17.57	22 61

*Average for five years. †For but one year. ‡For two years.

FLAX—ACREAGES FOR YEARS NAMED.

COUNTIES.	1888.	1889.	1890.	1891.	1892.	1893.
Barnes	728	367	996	363	101	487
Benson	182	764	4,902	2,579	281	732
Billings	.....	.....	.....	.....	.....	.....
Bottineau	.....	13	857	742	47	50
Burleigh	375	694	676	477	70	423
Cass	271	512	1,780	1,611	218	2,225
Cavalier	52	702	4,223	848	31	81
Dickey	8,407	13,851	18,243	14,850	7,829	9,649
Eddy	366	559	3,245	2,029	100	284
Emmons	543	950	4,007	8,696	3,637	5,446
Foster	550	1,147	5,287	5,655	167	1,018
Grand Forks	25	330	1,756	1,069	220	369
Griggs	277	306	2,244	1,913	262	653
Kidder	75	175	1,476	1,112	419	1,262
LaMoure	1,034	2,816	2,490	5,466	1,677	4,980
Logan	291	345	1,839	2,434	835	2,231
McHenry	12	52	199	764	53	88
McIntosh	8,312	11,332	13,505	17,041	5,957	9,738
McLean	.....	44	46	47	45	50
Mercer	292	496	628	660	326	523
Morton	606	601	777	954	372	646
Nelson	180	314	5,903	2,998	336	457
Oliver	20	174	60	81	.....	13
Pembina	.....	224	795	74	84	409
Pierce	.....	60	1,165	796	36	189
Ramsey	59	79	873	133	30	23
Ransom	10	.....	552	1,286	389	2,264
Richland	564	1,225	1,498	2,079	970	2,997
Rolette	86	48	535	681	10	.....
Sargent	2,147	3,020	3,104	4,723	1,414	3,609
Stark	37	150	174	227	202	305
Steele	239	409	1,657	566	10	140
Stutsman	236	472	2,172	1,113	159	1,095
Towner	50	70	972	446	6	.....
Traill	84	1	517	1,703	222	449
Walsh	688	2 964	16,567	4,927	170	734
Ward	1	7	.....	2	19	.....
Wells	562	3,673	8,117	7,605	1 678	3,848
Williams	.....	.....	.....	.....	.....	.....
UNORGANIZED—						
Hettinger	.....	.....	.....	3	5	.....
Dunn, etc	.....	.....	.....	.....	5	.....
Totals	27,361	48,946	113.837	98,753	28,392	57,467

FLAX—BUSHELS RAISED FOR YEARS NAMED.

COUNTIES.	1888.	1889.	1890.	1891.	1892.	1893.
Barnes	2,699	1,267	4,899	3,499	1,356	3,148
Benson	1,918	3,719	7,768	22,581	2,682	5,499
Billings	.....	.....	.....	.....	.....	.....
Bottineau	.....	10	3,051	4,731	355	343
Burleigh	2,548	1,803	2,790	3,248	760	979
Cass	1,172	3,925	5,990	6,363	3,125	11,124
Cavalier	223	4,040	12,018	5,775	205	399
Dickey	67,711	27,303	36,354	126,701	7,486	39,656
Eddy	777	7,546	4,510	10,936	1,135	2,554
Emmons	5,948	8,550	17,771	75,494	32,935	26,698
Foster	4,575	8,293	15,412	30,058	2,008	7,024
Grand Forks	382	4,717	8,939	14,213	4,039	3,337
Griggs	440	2,571	11,981	18 078	3,426	7,163
Kidder	272	350	4,005	10 319	4.757	6,184
LaMoure	11,997	4,734	8.457	57,120	16 340	25,890
Logan	1,566	606	4,532	12,669	6,631	9,729
McHenry	35	125	71	7,105	437	544
McIntosh	54,819	35,319	42.180	118,061	63,279	60,578
McLean	.....	38	207	736	516	206
Mercer	1,916	1,889	2,956	7,484	1.814	646
Morton	3,531	9,216	3,080	13,226	3.001	4.081
Nelson	478	1,557	18.889	26.502	3,088	3,661
Oliver	98	260	241	1,167	.....	130
Pembina	.....	1,796	2 988	1,190	1,312	3,680
Pierce	.....	108	714	8 183	400	1 150
Ramsey	450	66	1,523	580	550	155
Ransom	40	.....	1,975	10.285	4.832	14.241
Richland	4,732	16,078	9 493	28.330	9,335	13,629
Rolette	574	126	784	3.259	90	.....
Sargent	14,965	7.526	6,463	48,647	15,168	20,521
Stark	208	2,250	650	3.067	1,615	820
Steele	2,102	1,134	7 039	2,871	130	1.438
Stutsman	1,702	1,713	5,470	6,834	3,010	9,931
Towner	150	665	968	607	70	.....
Traill	303	13	7,360	9,741	2,800	5.151
Walsh	6,581	18,657	34,024	31,976	1,881	6,970
Ward	8	25	.....	45	100	.....
Wells	5 148	8 863	2,640	81,612	14,540	32,950
Williams	.....	.....	.....	.....	.....	.....
UNORGANIZED—						
Hettinger	.....	.....	.....	45	50	.....
Dunn, etc	.....	.....	.....	.....	28	.....
Totals	200,068	186,858	298,192	813,338	275,286	330,209

FLAX—AVERAGE YIELDS FOR THE YEARS NAMED.

COUNTIES.	1888.	1889.	1890.	1891.	1892.	1893.	Average for 6 yrs.
Barnes	3.70	3.45	4 91	9 64	13.43	6.46	5 54
Benson	10.53	4.87	1 58	8.75	9 54	7.51	4 67
Billings	.....	.....	.....	.....	.....	.....	.....
Bottineau	.....	.76	3.56	6.37	7.55	6 86	*4.94
Burleigh	6.79	2 59	4.12	6.80	10.86	2.31	4 46
Cass	4.32	7.66	3.36	3 95	14 33	4 99	4.79
Cavalier	4.28	5.75	2.84	6 81	6 61	4.92	3.81
Dickey	8.05	1 97	1 99	8.53	8.62	4.11	5.01
Eddy	2.12	13 49	1 39	5 38	11.35	8 99	4 17
Emmons	10.95	9.00	4 43	8 67	9.06	4.90	7.19
Foster	8 31	7.23	2 91	5 28	12.02	6 90	4.87
Grand Forks	15 28	14 29	5.09	13.29	18.39	9.04	9.45
Griggs	1 58	8 40	5.33	9.45	13 08	10.97	7.72
Kidder	3.62	2 00	2.71	9 28	11 35	4 90	5.72
LaMoure	11.60	1 68	3.39	10.45	9 74	5.20	6.74
Logan	5.38	1.75	2.46	5.20	7.94	4.36	4.48
McHenry	2.91	2.40	.35	9.30	8 25	6.18	7.12
McIntosh	6.59	3.11	3.12	6 92	10.62	6.22	5.67
McLean	.....	.84	4.50	15.61	11.47	4.12	*7.34
Mercer	6 56	3 80	4.70	11 34	5 56	1.23	5 71
Morton	5 82	15.33	3.96	13 86	8.07	6.31	9.10
Nelson	2 65	4.95	3.19	8.84	9.19	8 01	5.31
Oliver	4 90	1.49	4.01	14 40	.....	10.00	*5.46
Pembina	.....	8.01	3.75	16.08	15.62	8.99	*6.91
Pierce	.....	1.80	.61	10.28	11.11	6.08	*4.69
Ramsey	7.62	.83	1 74	4.36	18.33	6.73	2.77
Ransom	4 00	.....	3.57	7.99	12.42	6.29	*6.96
Richland	8.39	13.12	6.33	13.62	9.62	4.54	8.74
Rolette	6 67	2.62	1 46	4.78	9.00	.....	*3.55
Sargent	6.97	2.49	2.08	10.30	10.73	5.68	6 23
Stark	5.62	15.00	3.73	13 51	8.00	2 68	7 86
Steele	8.79	2.77	4.24	5.07	13 00	10 27	4 87
Stutsman	7 21	3 62	2.51	6.14	18 93	9.07	5.46
Towner	3 00	9.50	.99	1.36	11 67	.....	*1.59
Traill	3.60	13.00	14.23	5.72	12.61	11.47	8.52
Walsh	9 56	6.29	2.05	6.49	11.06	9.49	3.84
Ward	8 00	3.57	.....	22.50	5.26	.....	†6.13
Wells	9 16	2.41	.32	10.73	8.67	8 56	5.71
Williams	.....	.....	.....	.....	.....	.....	.....
UNORGANIZED—							
Hettinger	.....	.....	.....	15.00	10 00	.....	‡11.87
Dunn, Etc	.....	.....	.....	.....	5.60	.....	§5.60
The State.	7.31	3.82	2.62	8.24	9.70	5.75	5.61

*Ayerage for five years. †Average for four years. ‡Average for two years. §For one year

RYE—ACREAGES FOR YEARS NAMED.

COUNTIES.	1888.	1889.	1890.	1891.	1892.	1893
Barnes	137	198	275	696	2,866	3 117
Benson	2	4	2	17	40	299
Billlings	.....	.....	.....	.....	.....	.....
Bottineau	3	.....	7	14	34	152
Burleigh	120	328	475	507	308	475
Cass	72	18	25	203	388	1,106
Cavalier	.....	.....	10	8	13	312
Dickey	35	123	2,764	250	1,662	3,373
Eddy	.....	.....	26	121	1,081	2,068
Emmons	3	13	31	254	412	1,320
Foster	.....	5	.....	73	393	1,250
Grand Forks	7	38	50	42	106	693
Griggs	32	262	414	1,137	2,588	2,188
Kidder	2	31	155	322	259	453
LaMoure	227	622	912	2,566	5,616	7,152
Logan	.....	.....	.....	12	332	537
McHenry	10	6	5	9	34	58
McIntosh	7	20	153	346	2,015	3,616
McLean	7	22	30	45	11	28
Mercer	.....	2	3	5	2	3
Morton	.....	13	5	23	30	113
Nelson	18	77	139	309	999	2,655
Oliver	3	10	13	34	29	91
Pembina	.....	20	.....	.....	232	229
Pierce	.....	.....	.....	.....	.....	24
Ramsey	7	5	1	3	38	102
Ransom	122	104	210	682	1,212	1,854
Richland	15	54	137	633	249	478
Rolette	4	9	3	4	5	34
Sargent	42	58	1,119	387	1,029	1,994
Stark	96	100	43	76	7	117
Steele	94	125	239	378	905	1,535
Stutsman	11	39	161	487	1,275	1,832
Towner	.....	.....	.....	16	.....	2
Traill	17	44	55	93	393	730
Walsh	.....	1	7	21	7	691
Ward	.....	.....	.....	.....	.....	.....
Wells	.....	.....	5	28	306	273
Williams	.....	.....	.....	.....	.....	.....
UNORGANIZED—						
Hettinger	.....	.....	.....	.....	.....	.....
Dunn, etc	.....	.....	.....	.....	4	5
Totals	1,093	2,351	7,474	9,801	24,880	40,959

RYE—BUSHELS RAISED FOR YEARS NAMED.

COUNTIES.	1888.	1889.	1890.	1891.	1892.	1893.
Barnes	2,054	1,578	4,802	17,159	54,625	28 988
Benson	40	27	10	347	920	4,140
Billings	.....	.....	.....	.....	.....	.....
Bottineau	84	.....	60	200	761	1,143
Burleigh	1,864	2,774	4 099	9.085	3,701	3,513
Cass	1 674	360	310	3,536	6,704	11,378
Cavalier	.....	.....	113	175	202	5,916
Dickey	514	651	1,741	7,300	28,758	22,406
Eddy	.....	.....	413	4,899	18 481	23,855
Emmons	30	182	238	4 595	6 849	10.082
Foster	.....	7	.....	2 202	6,349	9,156
Grand Forks	110	304	510	662	1.800	6,457
Griggs	606	2 277	4 480	24 673	39 427	17.200
Kidder	25	139	1 201	4 672	3 311	3,267
LaMoure	4 256	3,320	8,471	60,712	91 563	50,791
Logan	.....	.....	.....	72	4 343	3 854
McHenry	77	31	55	192	599	379
McIntosh	201	143	532	7,023	33,778	35,201
McLean	257	78	389	922	174	423
Mercer	.....	2	27	50	14	10
Morton	.....	130	29	558	737	1.522
Nelson	192	649	1,460	9.122	17,193	32,131
Oliver	17	30	103	855	757	1,079
Pembina	.....	150	.....	.....	2,661	3,645
Pierce	.....	.....	.....	.....	.....	320
Ramsey	69	12	6	10	1,040	1.650
Ransom	1 997	967	2.078	10,483	22,390	12.203
Richland	236	990	2,051	5,569	3,494	2,804
Rolette	30	20	6	30	129	534
Sargent	802	333	794	7.152	19,260	11.274
Stark	702	1 000	282	1,907	156	477
Steele	980	651	2.677	6 657	14.203	21,495
Stutsman	70	310	1,847	10,695	21,889	20,341
Towner	.....	.....	.....	395	.....	20
Traill	515	595	925	2,096	8 523	9.142
Walsh	.....	22	46	525	125	6,765
Ward	.....	.....	.....	.....	.....	.....
Wells	.....	.....	75	581	5,799	4,391
Williams	.....	.....	.....	.....	.....	.....
UNORGANIZED—						
Hettinger	.....	.....	.....	.....	.....	.....
Dunn, etc	.....	.....	.....	.....	10	24
Totals	17.402	17,732	39,830	205,111	420,725	367 976

RYE—AVERAGE YIELDS FOR THE YEARS NAMED.

COUNTIES.	1888.	1889.	1890.	1891.	1892.	1893.	Average for Six Years.
Barnes	14.99	7.96	17 45	24.64	19.06	9 30	14.98
Benson	20.00	6.75	5.00	20 41	23.00	13.85	15.06
Billings	.....	.....	.....	.....	.....	.....	.....
Bottineau	28 00	.....	8 57	14.28	22 38	7 51	*10.70
Burleigh	15.53	8.45	8.63	17.91	12 02	7.39	11.31
Cass	23.25	20.00	12 40	17.41	17.28	10.28	13.22
Cavalier	.....	.....	11.30	21.87	15 54	18.96	†18 67
Dickey	14 68	5 29	.62	29 20	17 30	6.64	7.47
Eddy	.....	.....	15 88	40.48	17.10	11.53	†14.45
Emmons	10.00	14.00	7.67	18 09	16.62	7.63	10.80
Foster	.....	1 40	.....	30.16	16 16	7.32	†12.29
Grand Forks	15.71	8 00	10.20	15 76	16.98	9 31	10.51
Griggs	18 93	8.69	10 82	21 70	15.23	7.86	13.39
Kidder	12.50	4.48	7.74	14 51	12.78	7.21	10.32
LaMoure	18.74	5.33	9.31	23.66	16.30	7.10	12.81
Logan	.....	.....	.....	6 00	13.08	7.17	‡9.38
McHenry	7.70	5 16	11.00	21 33	17 62	6.53	10 92
McIntosh	28 71	7.15	3.47	20 29	16 76	9.73	12.48
McLean	36.71	3.54	12 96	20.49	15.82	15.10	15.68
Mercer	.....	1.00	9.00	10.00	7.00	3.33	*6 86
Morton	.....	10.00	5.80	24 26	24 57	13.46	*16.17
Nelson	10.66	8.42	10 50	29.52	17.21	12.10	14.47
Oliver	5.66	3 00	7.92	25.14	26.10	11.85	15.78
Pembina	.....	7.50	.....	.....	11.47	15.91	‡13 42
Pierce	.....	.....	.....	.....	.....	13.33	§13 33
Ramsey	9 85	2.40	6.00	3.33	27 37	16.17	17 86
Ransom	16.36	9 29	9 89	15 37	18 47	6.58	11 97
Richland	15.73	18.33	14.97	8.79	14.03	5 86	9.67
Rolette	7.50	2 22	2.00	7 50	25.80	15.70	12 69
Sargent	19.09	5.74	.70	18.48	18.72	5.65	8 55
Stark	7.31	10.00	6.55	25 09	22 29	4 07	10 30
Steele	10 42	5 20	11.20	17.61	15.69	14 00	14.24
Stutsman	6 36	7.94	11 47	21.96	17.17	11.10	12.95
Towner	.....	.....	.....	24.56	.....	10.00	¶23 05
Traill	30 29	13.54	16.85	23.61	21.69	12.52	16.36
Walsh	.....	22 00	6.57	25.00	17 86	9.79	*10 29
Ward	.....	.....	.....	.....	.....	.....	.....
Wells	.....	.....	15 00	20.75	18,95	16.08	†17.72
Williams	.....	.....	.....	.....	.....	.....	.....
UNORGANIZED—							
Hettinger	.....	.....	.....	.....	.....	.....	.....
Dunn, etc	.....	.....	.....	.....	2 50	4.80	¶3.78
The State	15 92	7 55	5.33	20 93	16.91	8 98	12.35

*Average for five years. †Average for four years. ‡Average for three years.
¶Average for two years. §For one year.

CORN—ACREAGES FOR THE YEARS NAMED.

COUNTIES.	1888.	1889.	1890.	1891.	1892.	1893.
Barnes	207	127	328	245	72	192
Benson	.....	3	40	25	6	57
Billings	15	.....	42	38	2	11
Bottineau	.....	.....	.....	.....	2	3
Burleigh	2 832	2,173	3,839	4,355	1 319	2,288
Cass	1,064	1 112	1,390	1 519	596	1,091
Cavalier	.....	.....	.....	1	.....	.....
Dickey	2,280	1,434	2,375	3,067	632	1,071
Eddy	.....	12	30	.....	4	6
Emmons	2,100	2,417	2,447	4,465	1 604	2,084
Foster	.....	3	10	50	2	56
Grand Forks	66	70	97	120	276	102
Griggs	.....	4	16	15	7	5
Kidder	235	449	301	506	65	240
LaMoure	469	220	641	1,018	126	212
Logan	62	23	211	532	144	184
McHenry	199	88	135	76	4	25
McIntosh	215	329	725	1,269	527	311
McLean	462	490	623	592	341	544
Mercer	610	602	494	626	231	356
Morton	2,485	3,162	3,343	2,869	1,550	2,240
Nelson	26	54	14	11	.....	1
Oliver	795	609	669	454	266	380
Pembina	51	8	3	23	2	9
Pierce	.....	.....	.....	7	.....	.....
Ramsey	.....	26	14	15	3	3
Ransom	760	277	1,461	846	113	179
Richland	1,608	2,125	2,619	2,895	891	1,190
Rolette	.....	4	14	9	2	1
Sargent	836	740	2,092	2,236	570	590
Stark	836	2,100	1,088	1 134	617	1,092
Steele	172	73	102	110	8	455
Stutsman	45	65	232	299	40	85
Towner	.....	.....	.....	7	.....	6
Traill	371	204	486	830	155	238
Walsh	.....	13	51	138	14	23
Ward	85	182	139	63	38	76
Wells	.....	.....	3	.....	.....	3
Williams	.....	.....	.....	.....	38	41
UNORGANIZED—						
Hettinger	.....	.....	.....	97	30	.....
Dunn, etc	.....	.....	.....	.....	141	132
Total	18 886	19 198	26,074	30,562	10,438	15 582

CORN--BUSHELS RAISED FOR THE YEARS NAMED.

COUNTIES.	1888.	1889.	1890.	1891.	1892.	1893.
Barnes	2,391	1,063	5,172	4 993	3,695	3,916
Benson	.....	85	146	500	240	2,191
Billings	1,500	.....	199	1,645	27	150
Bottineau	.....	.....	.....	.....	127	45
Burleigh	31,776	31,448	47,819	95,941	27,983	34,642
Cass	12,940	50,040	2,309	15,059	14,814	26,961
Cavalier	.....	.....	.....	50	.....	.....
Dickey	38,648	17,109	12,102	37,246	12,213	8,837
Eddy	.....	420	175	.....	160	112
Emmons	33,900	52,368	33,680	91,354	32,752	32,963
Foster	.....	72	80	1,250	40	440
Grand Forks	987	1,214	746	2,153	10,377	2,551
Griggs	.....	40	251	132	152	80
Kidder	1,379	401	2,932	12,711	1,283	1,450
LaMoure	6,940	1,630	6,663	11 391	4,448	3.158
Logan	675	79	652	6,661	582	591
McHenry	293	992	400	3,641	170	236
McIntosh	2,364	1,642	3,621	9,380	7,894	2,796
McLean	2,497	6,793	8,625	18,775	6,974	10,227
Mercer	3,767	3,473	6,016	25 923	3,230	2,287
Morton	34,127	104,346	41,180	57,369	30,935	38,226
Nelson	10	50	71	162	.....	56
Oliver	3 078	5,082	4,967	7,790	5,172	4,770
Pembina	100	147	123	1,060	140	357
Pierce	.....	.....	.....	140	.....	.....
Ramsey	.....	37	30	225	210	89
Ransom	13,570	2,551	7,497	10 829	3,873	3 510
Richland	45,174	70,833	56,071	94,753	27,745	34,742
Rolette	.....	28	45	23	49	25
Sargent	14,137	5,378	7,687	42,618	18,155	12,326
Stark	22,465	84,000	9,970	29,529	10,060	4,381
Steele	1,190	580	938	1 301	295	2,364
Stutsman	225	1,140	3,616	3,645	1 517	1,145
Towner	.....	.....	.....	140	.....	135
Traill	1,972	1,349	11,039	5,163	5,317	5,540
Walsh	.....	50	422	4,111	325	745
Ward	1,336	492	440	1,899	1,100	742
Wells	.....	.....	75	.....	.....	61
Williams	.....	.....	.....	.....	675	1,435
UNORGANIZED—						
Hettinger	.....	.....	.....	1,200	1,400	.....
Dunn, etc	.....	.....	.....	.....	1,034	1,452
Totals	277,441	444,932	275,759	600,762	235,163	245,734

CORN—AVERAGE YIELDS FOR THE YEARS NAMED.

COUNTIES.	1888.	1889.	1890.	1891.	1892.	1893.	Average for Six Years.
Barnes	11.55	8.37	15.76	19.93	51.32	20.39	18.12
Benson	.....	28.33	3.65	20.00	40.00	38.43	*24.13
Billings	100.00	.....	4.73	43.28	13.50	13.63	*32.60
Bottineau	.....	.....	.....	.....	63.50	15.00	†34.40
Burleigh	11.22	14.47	12.45	22.03	21.22	15.14	16.04
Cass	12.16	45.00	1.66	9.91	24.86	24.71	18.03
Cavalier	.....	.....	.....	50.00	.....	.....	‡50.00
Dickey	16.95	11.93	5.09	12.14	19.32	8.25	11.61
Eddy	.....	35.00	5.83	.....	40.00	18.66	§16.67
Emmons	16.14	21.66	13.76	20.46	20.42	15.81	18.32
Foster	.....	24.00	8.00	25.00	20.00	7.85	*15.55
Grand Forks	14.95	17.34	7.69	17.93	37.60	25.00	24.66
Griggs	.....	10.00	15.68	8.80	21.71	16.00	*13.93
Kidder	5.86	.89	9.74	25.12	19.74	6.04	11.22
LaMoure	14.79	7.40	10.39	11.19	35.30	14.89	12.74
Logan	10.88	3.43	3.09	12.52	4.04	3.21	7.99
McHenry	1.47	11.27	2.96	47.91	42.50	9.44	10.87
McIntosh	10.99	4.99	4.99	7.39	14.98	8.99	8.20
McLean	5.40	13.86	13.84	31.71	20.45	18.79	17.65
Mercer	6.17	5.76	12.17	41.41	13.98	6.42	15.31
Morton	13.73	33.00	12.31	20.00	19.96	17.06	19.56
Nelson	.38	.92	5.07	14.81	.....	56.00	*3.29
Oliver	3.87	8.34	7.42	17.15	19.44	12.55	9.72
Pembina	1.96	18.37	41.00	46.08	70.00	39.66	20.07
Pierce	.....	.....	.....	20.00	.....	.....	‡20.00
Ramsey	.....	1.42	2.14	15.00	70.00	29.66	*9.68
Ransom	17.85	9.20	5.13	12.80	34.27	19.66	11.50
Richland	28.09	33.33	21.40	32.73	31.14	29.19	29.07
Rolette	.....	7.00	3.21	2.55	24.50	25.00	*5.66
Sargent	16.91	7.26	3.67	19.06	31.85	20.89	14.19
Stark	26.87	40.00	9.16	26.03	16.30	4.01	23.35
Steele	6.91	7.94	9.19	11.82	36.87	5.19	7.24
Stutsman	5.00	17.53	15.58	12.19	37.93	13.49	14.73
Towner	.....	.....	....	20.00	.....	22.50	†21.15
Traill	5.31	6.61	22.70	6.22	34.30	23.27	13.30
Walsh	.....	3.84	8.27	29.79	23.21	32.39	*23.65
Ward	15.71	2.70	3.16	30.14	28.95	9.76	10.30
Wells	.....	.....	25.00	.....	.....	20.33	†22.66
Williams	.....	.....	.....	.....	17.76	35.00	†26.71
UNORGANIZED—							
Hettinger	.....	.....	.....	12.37	46.67	.....	†20.47
Dunn, etc	.....	.....	.....	.....	7.33	11.00	†9.11
The State.	14.63	23.18	10.57	19.66	22.53	15.76	17.21

*Average for five years. †Average for two years. ‡For one year. §Average for four years.

POTATOES—ACREAGES FOR THE YEARS NAMED.

COUNTIES.	1888.	1889.	1890.	1891.	1892.	1893.
Barnes	732	486	626	611	863	606
Benson	89	138	131	115	153	169
Billings	10	.....	5	13	4	8
Bottineau	134	267	238	480	306	216
Burleigh	627	650	1,029	743	432	440
Cass	1,395	1,549	1,515	1,518	1 157	1,566
Cavalier	248	325	360	635	285	335
Dickey	831	778	1,464	660	598	606
Eddy	58	149	159	141	124	122
Emmons	276	246	267	319	299	318
Foster	170	126	121	130	101	114
Grand Forks	824	856	851	1,071	1 167	1 003
Griggs	167	228	201	194	164	193
Kidder	188	168	111	168	88	101
LaMoure	470	384	304	388	345	315
Logan	35	16	32	36	42	48
McHenry	108	109	230	222	104	117
McIntosh	167	237	305	310	321	274
McLean	115	95	112	126	110	107
Mercer	47	29	46	59	42	64
Morton	610	600	607	545	467	570
Nelson	234	399	351	395	307	424
Oliver	66	70	63	62	70	70
Pembina	529	845	1,178	1 146	703	757
Pierce	56	51	84	66	34	54
Ramsey	276	347	414	335	312	376
Ransom	478	268	335	351	327	366
Richland	715	705	746	1,972	2,680	2,527
Rolette	*100	193	202	212	160	131
Sargent	583	484	576	502	604	411

Stark	358	475	235	286	211	243
Steele	400	312	292	329	263	326
Stutsman	496	398	619	728	478	496
Towner	48	†70	103	104	165	188
Traill	670	535	549	654	448	828
Walsh	861	905	1 169	1 545	1,274	911
Ward	82	138	200	111	121	134
Wells	96	114	121	141	150	157
Williams	.....	.....	.....	220	65	45
UNORGANIZED—						
Hettinger	.....	.....	.....	21	3	.....
Dunn, McKenzie, Allred and Wallace	.....	.....	.....	.....	42	37
Totals	13,349	13,745	15,941	17,674	15,589	15,783

*Estimated—no acreage given for 1888. †Estimated—Hagerty gives 621, which is evidently erroneous.

POTATOES—BUSHELS RAISED FOR THE YEARS NAMED.

COUNTIES	1888.	1889.	1890.	1891.	1892.	1893.
Barnes	75,477	28,880	50,529	81,257	102,534	42,359
Benson	9,639	15,654	6,514	19,516	25,339	19,620
Billings	1,000	.....	305	1,085	280	370
Bottineau	7,673	15,147	19,021	66,720	35,312	10,179
Burleigh	63,805	36,433	37,147	101,272	46,755	26,817
Cass	144,010	119,531	191,815	186,760	139,361	124,037
Cavalier	25,202	29,022	39,856	112,395	42,642	42,500
Dickey	76,452	18,586	25,526	73,907	44,684	30,812
Eddy	9,668	17,383	7,622	21,727	19,712	11,218
Emmons	29,510	22,960	11,999	31,954	29,062	16,023
Foster	16,755	10,981	4,482	15,657	13,085	11,685
Grand Forks	83,883	117,406	64,082	165,515	130,276	87,897
Griggs	14,517	24,221	10,786	29,116	25,166	15,283
Kidder	26,100	3,100	6,162	21,768	12,670	6,203
LaMoure	54,635	7,766	12,987	42,680	31,722	14,385
Logan	3,119	492	1,221	5,849	3,734	2,973
McHenry	8,927	10,527	4,378	34,106	11,440	4,836
McIntosh	17,532	9,626	10,558	25,138	33,577	16,358
McLean	13,823	8,130	8,470	17,159	9,523	8,164
Mercer	4,217	1,991	3,518	14,373	4,490	3,275
Morton	66,945	58,800	30,787	79,950	46,811	35,107
Nelson	19,942	33,943	20,341	62,485	42,302	27,578
Oliver	6,524	3,476	4,162	8,694	7,108	5,641
Pembina	79,595	122,283	119,081	216,021	130,378	114,496
Pierce	5,600	2,558	1,448	8,134	4,880	3,173
Ramsey	20,332	25,839	19,097	60,949	49,427	36,944
Ransom	46,449	9,627	14,865	51,186	33,390	22,345
Richland	65,124	94,587	52,454	220,268	214,467	220,215
Rolette	9,654	10,704	13,933	26,902	19,797	9,774
Sargent	17,219	10,122	10,724	63,302	56,022	22,808

Stark	39,742	45,125	10,581	39,969	15,064	5,469
Steele	33,441	25 939	21,512	45,018	34.668	27,847
Stutsman	71,415	26,318	43,193	67,066	65,183	45,518
Towner	2,683	5 600	4,102	18,304	21,636	17,245
Traill	71209	51,518	76.567	117,844	54,541	71,782
Walsh	76 907	126 251	84 921	244,960	169 382	114,053
Ward	8,777	6,127	4.928	22,513	12,544	5,935
Wells	11,345	11,716	6,085	20 304	18 812	14,042
Williams	.....	.....	.....	22,000	8,411	3.170
UNORGANIZED—						
Hettinger	.....	.....	.....	2,425	200	.....
Dunn, McKenzie, Allred and Wallace	.....	.....	.....	.....	2 212	954
Totals	1,368,847	1,168,369	1,055,759	2,444,048	1,768,599	1,299,090

POTATOES—AVERAGE YIELDS FOR THE YEARS NAMED.

COUNTIES.	1888.	1889.	1890.	1891.	1892.	1893.	Average for Six Years.
Barnes	103.11	59.42	80.71	132.29	118.81	69.90	97.10
Benson	108.30	113.43	49.72	168.83	165.61	116.09	121.10
Billings	100.00	.....	61.00	83.46	70.00	46.25	*76.00
Bottineau	57.26	56.73	79.92	139.00	115.40	47.12	93.87
Burleigh	101.76	56.05	36.10	136.28	108.23	60.94	79.62
Cass	103.23	77.16	126.61	123.03	120.45	79.20	104.08
Cavalier	101.62	89.29	110.71	177.00	149.62	126.86	133.27
Dickey	92.00	23.81	17.43	111.98	74.72	50.84	54.68
Eddy	166.68	116.67	47.93	154.09	158.97	91.95	115.97
Emmons	106.92	93.33	44.94	100.17	97.20	50.38	82.03
Foster	98.55	87.14	37.04	120.44	129.55	102.50	95.33
Grand Forks	101.79	137.15	75.30	154.54	111.63	87.63	112.44
Griggs	86.92	106.23	53.66	150.08	153.45	79.18	103.82
Kidder	138.82	18.45	55.51	129.57	143.98	61.41	92.23
LaMoure	116.24	20.22	42.72	110.00	91.95	45.66	74.42
Logan	89.11	30.75	38.15	162.47	88.90	61.93	83.19
McHenry	82.65	96.57	19.03	153.63	110.00	41.30	83.38
McIntosh	104.98	40.61	34.61	81.09	104.60	59.70	69.88
McLean	120.20	85.57	75.62	136.19	86.57	76.30	98.14
Mercer	89.70	68.65	76.47	243.61	106.90	51.17	111.02
Morton	109.74	98.00	50.71	146.69	100.24	61.59	93.67
Nelson	85.22	85.07	57.95	158.19	137.79	65.04	97.91
Oliver	98.84	49.65	66.06	140.22	101.54	80.59	88.79
Pembina	150.46	144.71	101.09	188.49	185.46	151.24	151.58
Pierce	100.00	50.15	17.23	123.24	143.53	58.75	74.76
Ramsey	73.66	74.46	46.12	181.93	158.42	98.25	103.19
Ransom	97.17	35.92	44.37	145.82	102.11	61.05	83.69
Richland	91.08	134.16	70.31	111.85	80.02	87.14	92.78
Rolette	96.54	55.46	68.97	126.89	123.73	74.61	90.94
Sargent	80.99	20.91	18.61	126.10	92.75	55.49	66.51

Stark	111.01	95.00	45.02	139.72	71.39	22.51	86.25
Steele	83.60	83.13	73.67	132.79	131.82	82.87	97.02
Stutsman	143.98	66.12	70.92	92.12	136.37	91.77	99.43
Towner	55.89	80.00	39.82	176.00	131.13	91.73	102.61
Traill	106.28	96.29	139.46	180.19	121.74	86.69	120.37
Walsh	89.32	139.50	72.64	158.55	132.95	125.19	122.50
Ward	107.03	44.39	24.64	202.81	103.67	44.29	77.38
Wells	118.17	102.77	50.28	141.16	125.41	89.43	105.65
Williams	.....	.....	.....	100.00	129.40	70.44	†101.76
UNORGANIZED—							
Hettinger	.....	.....	.....	115.48	66.67	.....	‡109.38
Dunn, etc	.....	.....	.....	.....	52.67	25.78	‡40.08
The State	102.47	85.00	66.23	138.28	113.45	82.31	98.88

* Average for five years. † Average for three years. ‡ Average for two years.

LIVE STOCK—1893.

Numbers Assessed and Values as Equalized By the State Board of Equalization.

COUNTIES	No. of Persons Assessed Exclusive of Firms.	HORSES.					
		Under Three Years Old.		Three Years Old and Over.		Bronchos or Range Horses.	
		No.	Value in Dollars.	No.	Value in Dollars.	No.	Value in Dollars.
Barnes	1,739	1,269	$ 26,877	4,826	$ 217,297	1,100	$ 27,731
Benson	797	519	10,842	1,826	91,948	.....	.....
Billings	93	1,444	26,092	1,376	55,728	1,610	32,200
Bottineau	998	450	8,136	1,510	60,506	510	10,026
Burleigh	986	783	14,515	1,900	74,155	806	16,442
Cass	3,071	3,553	87,448	12,478	740,320	1,590	47,748
Cavalier	1,645	882	18,284	2,599	127,585	761	19,322
Dickey	1,552	1,324	23,514	4,206	164,412	613	12,125
Eddy	599	361	7,795	1,181	58,826	173	4,425
Emmons	633	1,023	18,168	1,677	68,891	855	17,613
Foster	305	308	6,486	1,024	51,507	46	1,197
Grand Forks	3,631	2,710	65,094	11,980	693,163	588	17,963
Griggs	790	569	11,960	1,803	87,716	386	10,013
Kidder	464	339	6,125	770	31,501	548	11,337
LaMoure	915	790	14,220	2,268	90,425	434	8,854
Logan	191	145	2,555	455	18,467	63	1,298
McHenry	566	506	8,966	748	29,778	714	14,415
McIntosh	796	749	13,504	2,265	92,729	15	3,042
McLean	248	561	10,362	447	17,643	571	11,551
Mercer	161	135	2,466	180	7,211	370	7,326
Morton	1,254	1,307	23,722	1,686	66,833	2,260	46,013
Nelson	1,235	787	16,434	2,616	129,678	169	4,340
Oliver	146	161	2,843	239	9,703	257	5,204

Pembina	3,251	2,226	53,896	8,465	498,927	1 620	18 859
Pierce	255	119	2,222	441	17,871	287	5,746
Ramsey	1,254	799	16.771	2 893	144,389	596	14,844
Ransom	1,363	1,202	26,211	3,880	194,310	.....	.....
Richland	2,389	2,161	50,744	7,290	422 528	686	20,653
Rolette	760	300	6 429	833	40,842	817	20,972
Sargent	1 426	1,027	21,536	3,643	182,879	455	11,807
Stark	691	577	10,646	1,123	44 224	503	10,165
Steele	1,001	878	20 826	3 452	203,037	483	14,601
Stutsman	1,256	576	12,228	1.701	83,315	1,280	32,614
Towner	485	327	7,122	1,157	56 531	330	8,359
Traill	2,229	2,370	56,880	8,707	498,040	604	18.120
Walsh	3.587	2,018	48,755	9,369	537,218	545	16,617
Ward	533	292	5,164	418	17,334	1,020	20,747
Wells	546	242	4.545	1,015	40,346	513	10 414
Williams	128	73	1.325	202	8,106	361	7,469
Total value, organized counties.	43,969	35,682	$ 771,708	114,112	$ 5,975,919	24,539	$ 592,172
UNORGANIZED							
Allred	.....	.....	.....	.....	.....	20	$ 399
Dunn	.....	159	$ 2,857	265	$ 10,929	688	13,829
Hettinger	.....	56	1,016	62	2,574	112	2,260
McKenzie	.....	10	180	13	517	474	9,456
Wallace	.....	.....	.....	3	120	115	2,305
Total value, unorganized	.....	225	$ 4,053	343	$ 14,140	1,409	$ 28,249
Grand Total	43,969	36,087	$ 775,761	114,455	$ 5,990,059	25,948	$ 620,421

LIVE STOCK—1893.

Numbers Assessed and Values as Equalized by the State Board of Equalization.

COUNTIES.	2 CATTLE.							
	Under Two Years Old.		Cows Two Years Old and Over.		All Other Cattle 2 Yrs. Old and Over.		Range Cattle.	
	No.	Value in Dollars.	No.	Value in Dollars.	No.	Value in Dollars.	No.	Value in Dollars.
Barnes	2,289	$ 11,726	4,048	$ 48,940	1,064	$ 21,131	7	$ 140
Benson	1,132	6,022	1,486	18,960	1,104	22,246	41	822
Billings	884	7,956	998	11,976	2,144	42,880	22 181	443,620
Bottineau	1,157	6,853	1,628	19,650	1,405	27,959	132	2,623
Burleigh	2,210	16,734	3,265	39,180	1,205	24 064	364	7,407
Cass	3,801	22,857	7,053	87,613	720	14,695	46	916
Cavalier	1,875	10,230	2,844	34,695	1,730	35,482	48	973
Dickey	2,168	10,542	3,120	37,440	1,188	23,712	28	558
Eddy	980	5,982	1,038	12,773	660	13,141	1	20
Emmons	1,740	10,513	2,794	33,835	1,119	22,447	281	5,552
Foster	556	4,555	877	11.094	279	5,527	6	120
Grand Forks	3,064	15,525	7,061	85,438	1,416	28,292	.....	.....
Griggs	1,244	7.119	1,851	22.693	1,160	23.644	5	100
Kidder	1,018	6,261	1,181	14,483	710	14,385	.....	.....
LaMoure	1,610	8,035	2,309	27,708	1,169	23,672	11	220
Logan	321	2,236	465	5,603	301	6,128	335	6,784
McHenry	3,062	27,554	2 325	28,895	1,349	27,385	1,809	37,229
McIntosh	1,371	8,410	2,225	28,035	1,047	21,597	.....	.....
McLean	1,365	7,086	1,222	14,982	455	9 346	151	3,014
Mercer	639	3,195	501	6,067	513	10,342	885	17,682
Morton	3,685	25,122	4,063	49,893	2,164	43,020	4,697	95,819
Nelson	2,265	12,686	2,848	34,631	1 416	28 065	147	2,984
Oliver	432	3,423	584	7,008	369	7,509	288	5,699

Pembina	2,981	15,575	5,164	62,123	1,684	34,370	1	20
Pierce	303	2 257	565	7,012	621	12,339	94	1,874
Ramsey	1,375	6,957	2,388	29,794	1,165	23,696	44	897
Ransom	1,595	8,347	2,754	33,186	655	13,001	.....	.....
Richland	3,658	18,398	6,184	76 682	1,561	31,188	59	1,181
Rolette	733	4,366	1,241	15,438	985	20,291	15	299
Sargent	1,765	9,957	2,856	35,243	1,411	27,527	2	40
Stark	2,470	16,131	2,170	26,214	2,010	41.116	1 727	34,177
Steele	1,544	8,275	2,707	33,702	961	19,287	.....	.....
Stutsman	1,856	11,418	2,489	30,163	502	10,110	842	16,815
Towner	380	2,661	640	7,757	493	9,791	.....	.....
Traill	2,419	9,676	4,891	58,962	670	13,400	49	980
Walsh	2,385	11,946	6,041	72,854	1,513	30,638	221	4,442
Ward	2,046	14,354	1,151	22 656	1,786	36,184	460	9,108
Wells	630	3,978	991	12,116	810	16,265	167	3,396
Williams	410	3,554	1,258	15,775	424	8,539	643	12,808
Total value, organized Counties.	65,418	$ 388,472	99,976	$ 1,220,369	41,938	$ 844,411	35,887	$ 718,319
UNORGANIZED.								
Allred	.....	.....	.....	.....	.....	.....	110	2,178
Dunn	222	1,785	181	2,723	121	2,401	6,731	133,947
Hettinger	298	2,387	242	3,630	1,528	31,507	.....	.....
McKenzie	.....	.....	.....	.....	.....	.....	17,390	344,322
Wallace	.....	.....	.....	.....	.....	.....	679	13,444
Total value, unorganized	520	$ 4,172	423	$ 6,353	1,649	$ 33,908	24,910	$ 493,891
Grand Total	65,938	$ 392,644	100,409	$ 1,226,722	43,587	$ 878,321	60,797	$ 1,212,210

LIVE STOCK—1893.

NUMBERS ASSESSED AND VALUES AS EQUALIZED BY THE STATE BOARD OF EQUALIZATION.

COUNTIES.	3 MULES AND ASSES OF ALL AGES.		4 SHEEP.		5 HOGS.	
	No.	Value in Dollars.	No.	Value in Dollars.	No.	Value in Dollars.
Barnes	225	$ 11,120	8,316	$ 14,886	1,642	$ 4,893
Benson	68	3,406	918	1,588	499	1,487
Billings	2	102	8,157	14,683	1	3
Bottineau	40	1,984	794	1,413	435	1,331
Burleigh	117	5,791	6,134	10,550	516	1,507
Cass	1,518	62,094	5,523	9,886	4,506	13,563
Cavalier	84	4,259	2,926	5,033	1,923	5,884
Dickey	243	12,364	5,476	9,692	621	1,924
Eddy	57	2,848	2,048	3,581	429	1,278
Emmons	50	2,491	16,870	29,691	841	2,497
Foster	131	6,570	2,012	3,587	246	731
Grand Forks	585	28,858	6,633	11,475	4,030	12,009
Griggs	131	6,492	2,024	3,623	734	2,209
Kidder	98	4,920	10,186	17,666	377	1,123
LaMoure	168	8,403	4,238	7,374	542	1,625
Logan	7	355	1,715	2,967	265	795
McHenry	38	1,886	17,987	31,336	185	557
McIntosh	13	653	1,489	2,665	1,752	5,291
McLean	31	1,553	3,573	6,360	451	1,335
Mercer	6	300	9,143	16,158	290	870
Morton	68	3,405	31,318	56,059	892	2,694
Nelson	162	8,238	8,831	15,366	1,001	3,083
Oliver	7	356	10,716	18,646	139	425
Pembina	186	9,456	7,129	12,832	4,363	13,394
Pierce	18	922	3,299	5,938	91	265
Ramsey	141	7,005	3,641	6,372	1,078	3,266
Ransom	153	7,639	3,145	5,535	927	2,820
Richland	564	28,234	4,065	7,114	2,929	8,963
Rolette	27	1,346	1,623	2,791	624	1,878
Sargent	165	8,158	1,886	3,338	1,044	3,174
Stark	13	648	16,286	28,500	460	1,408
Steele	240	11,902	2,576	4,436	1,475	4,307
Stutsman	126	6,378	12,899	22,442	523	1,578
Towner	237	11,786	515	886	526	1,620
Traill	1,016	51,410	2,318	4,010	3,047	9,141
Walsh	188	9,400	4,345	7,517	4,656	13,875
Ward	15	737	13,522	23,258	142	427
Wells	94	4,662	2,874	4,972	555	1,693
Williams	5	256	5,421	9,216	26	77
Total Value, Organized Co's	6,737	$ 338,337	252,571	$ 443,442	44,783	$ 135,000

LIVE STOCK—1893.—*Continued.*

NUMBERS ASSESSED AND VALUES AS EQUALIZED BY THE STATE BOARD OF EQUALIZATION.

COUNTIES.	3 MULES AND ASSES OF ALL AGES		4 SHEEP.		5 HOGS.	
	No.	Value in Dollars.	No.	Value in Dollars.	No.	Value in Dollars.
UNORGANIZED—						
Allred	.....	.....	1,500	2,625	.....	.....
Dunn	1	50	7,808	13,664	98	296
Hettinger	.....	.....	11,517	20,500	17	51
McKenzie	.....	.....	.....	.....	.....	.....
Wallace	.....	.....	.....	.....	4	12
Total Value, Unorganized Co's.	1	$ 50	20,825	$ 36,789	119	$ 359
Grand Total	6,738	$338,387	273,396	$ 480,231	44,902	$ 135,359

LIVE STOCK—1894.

Numbers Assessed and Values as Equalized by State Board of Equalization.

COUNTIES.	Number Persons Assessed Exclusive of Firms.	HORSES.					
		Under Three Years Old.		Three Years Old and Over.		Bronchos or Range Horses.	
		No.	Assessed Value.	No.	Assessed Value.	No.	Assessed Value.
Barnes	1,683	1,530	$ 32,012	4,654	$ 196,134	1,066	$ 21,130
Benson	832	561	11 601	1,440	61,565	633	12,634
Billings	137	359	6,462	466	16,241	3,821	57,315
Bottineau	1,053	539	9,747	1,669	59,383	585	8,775
Burleigh	1,030	867	15.422	1,823	64,139	1,004	15,048
Cass	3,421	3,501	81,073	11.486	587.631	1,739	44,409
Cavalier	1,799	1,070	22,495	2,928	121,027	912	18,661
Dickey	1,503	1,605	28,568	3,819	125,720	703	10,999
Eddy	533	436	9,380	1,143	47,664	195	3,840
Emmons	703	1 114	19,723	1,943	68,065	1,178	17,752
Foster	260	304	6,346	1,006	42,605	121	2,431
Grand Forks	3,633	2,702	63,911	11 640	584,059	1,119	27,756
Griggs	800	609	13,349	1,907	81,803	443	9,159
Kidder	461	351	6,352	722	24,922	516	7,849
LaMoure	1,072	886	15,988	2 126	70,137	621	9.327
Logan	211	170	3,098	552	18 464	48	698
McHenry	544	576	10,084	678	23.970	1,155	17,864
McIntosh	897	856	15,777	2,635	94,573	40	600
McLean	171	586	10,281	498	17.113	628	9 827
Mercer	178	160	2,874	42	1,418	515	7,994
Morton	1 453	1,554	28,134	1,614	45 340	2,595	38 718
Nelson	1,316	876	18,041	2,658	114,663	400	8 431
Oliver	145	202	3,653	273	10,080	227	3,487

Pembina	3,265	2,085	48,797	8,417	413,484	2,014	50,873
Pierce	269	128	2,353	524	19,143	278	4,271
Ramsey	1,292	1,004	20,881	3,105	126,158	530	10,680
Ransom	1,315	1,038	21,776	3,384	138,740	388	7,755
Richland	2,476	2,264	55,030	7,462	373,213	715	18,326
Rolette	841	419	8,681	1,012	45,000	905	18,177
Sargent	1,581	1,228	26,130	3,705	158,733	513	10,409
Stark	796	160	2,912	767	25,874	1,256	19,342
Steele	1,052	952	22,223	3,463	173,158	593	15,121
Stutsman	1,245	590	12,524	1,909	80,020	821	17,137
Towner	662	384	8,166	1,518	66,117	414	9,679
Traill	2,215	2,286	54,864	8,785	434,857	597	14,772
Walsh	3,621	2,117	50,881	9,664	478,476	764	19,032
Ward	465	344	6,191	594	19,774	1,165	18,254
Wells	699	677	11,937	1,554	54,310	340	5,408
Williams	177	204	3,668	309	10,323	423	6,697
UNORGANIZED—							
Old Williams	.....	86	1,527	.....	.....	224	3,359
Dunn	83	70	1,251	170	5,759	698	10,677
McKenzie	3	.....	.....	.....	.....	216	3,306
Allred	1	.....	.....	.....	.....	70	1,071
Wallace	6	.....	.....	5	165	543	8,309
Hettinger	23	.....	.....	.....	.....	384	5,753
Totals	45,922	37,450	$794,163	114,069	$ 5,100,020	34,115	$ 633,112

LIVE STOCK--1894.

ABSTRACT OF ASSESSMENT OF PERSONAL PROPERTY IN THE STATE OF NORTH DAKOTA AS EQUALIZED BY THE STATE BOARD OF EQUALIZATION FOR 1894.

COUNTIES.	CATTLE.							
	Under Two Years Old.		Cows Two Years Old and Over.		All Other Cattle Two Years Old and Over.		Range Cattle.	
	No.	Value in Dollars.	No.	Value in Dollars.	No.	Value in Dollars.	No.	Value in Dollars.
Barnes	2,306	$14,229	4,243	$ 51,101	804	$14 508	16	$ 322
Benson	1.017	5 987	1 516	18,112	868	15,882	6	121
Billings	1,523	8,912	1,952	23,424	3,001	54,018	19 515	390 300
Bottineau	1.189	7.272	1,830	21.801	1,179	21,294	128	2,585
Burleigh	2,035	12.534	3.242	40.774	1,193	21 211	.....	.....
Cass	3,440	20.362	6.940	85.505	459	8,146	12	233
Cavalier	1.836	11,050	2 917	34,239	1,294	22,947	8	157
Dickey	2.220	12.907	3 246	39 005	820	14.720	28	560
Eddy	785	4,769	1,026	12,342	423	7,937	.....	.....
Emmons	1.747	10.791	2 847	34,056	1,137	19,882	161	3,165
Foster	573	3,480	855	10,106	315	5,652	.....	.....
Grand Forks	3.136	18 960	6,878	83 312	953	16,930	.....	.....
Griggs	1,207	7,892	1,828	22,565	925	17,199	.....	.....
Kidder	880	5 429	1,109	13.210	331	5,903	.....	.....
LaMoure	1.379	8,272	2,323	27,919	987	17,743	.....	.....
Logan	261	1,518	499	6,159	242	4,332	66	1 287
McHenry	2,005	12,400	2 459	28.735	890	16,259	1,067	20,803
McIntosh	1,498	8,803	2 392	28 822	937	17,443	.....	.....
McLean	1,478	8 484	1,227	14 908	615	10.860	22	432
Mercer	475	2 849	877	10 524	705	12,689	1	20
Morton	4,296	26 454	5,725	69,457	3,409	60,790	274	5,436
Nelson	2,324	13,995	3,127	37,563	1,069	18,888	13	258

Oliver	443	2,836	663	7,978	263	4 846	112	2,192
Pembina	2,915	16,178	5,372	64,022	1,304	22,694	4	80
Pierce	352	2,083	760	9,012	463	8,545	20	400
Ramsey	1,363	7,942	2,434	29,198	890	15,768	22	435
Ransom	1,346	8,512	2,784	32,115	410	7,452	2	40
Richland	3,418	20,080	6,381	74,045	1,117	19,948	76	1,505
Rolette	916	5,508	1 225	14,447	664	12,271	.....	.....
Sargent	1,733	10,372	2 886	35,845	997	18,400	3	60
Stark	1,580	9,715	2,016	24,192	372	7,016	1,309	25,524
Steele	1.511	9,129	2,713	33.259	802	14,372	.....	.....
Stutsman	1,577	9,643	2.503	30,724	714	12,861	150	2,924
Towner	432	2,617	771	9,372	516	9,584	1	20
Traill	2 324	13,941	4 769	55,797	456	8,208	51	1,011
Walsh	2.936	17,616	6,154	71,121	1,154	20,754	7	135
Ward	1,674	10,260	2,090	24,258	1,370	23,826	607	12,240
Wells	719	4,328	1,174	14,429	600	11,186	13	264
Williams	317	1,969	315	3,841	367	6,502	1,189	24,075
UNORGANIZED COUNTIES—								
Old Williams	294	1,764	532	6,384	690	12,420	2,310	46,200
Dunn	547	3,355	660	7,992	48	903	3,929	57,164
McKenzie	2,000	12,000	2,000	24,000	.....	.....	3,000	58,500
Allred	10	60	.....	.....	.....	.....	60	1,170
Wallace	1,682	10,094	661	7,932	1	18	4,591	89,523
Hettinger	158	958	384	4,608	555	9,768	648	13,298
Totals	67 857	$ 408,209	108,296	$ 1,298.210	36,300	$652,615	38,421	$762,545

LIVE STOCK—1894.

ABSTRACT OF ASSESSMENT OF PERSONAL PROPERTY IN THE STATE OF NORTH DAKOTA AS EQUALIZED BY THE STATE BOARD OF EQUALIZATION FOR 1894.

COUNTIES.	MULES AND ASSES OF ALL AGES.		SHEEP.		HOGS.	
	No.	Value in Dollars.	No.	Value in Dollars.	No.	Value in Dollars.
Barnes	162	$ 8,191	7,428	$ 7,696	2,200	$ 6,675
Benson	59	2,937	477	471	494	1,491
Billings	2	102	9 823	9,826	4	12
Bottineau	30	1,488	630	686	667	2.030
Burleigh	98	4,911	6,507	6,360	700	2,199
Cass	931	45.511	4.456	4,364	5.202	15,226
Cavalier	74	3,695	2,431	2,411	2,317	6.807
Dickey	201	9,969	5,583	5,714	1,266	3,766
Eddy	50	2,493	846	889	522	1,627
Emmons	58	2,847	17,793	18.329	1,196	3.504
Foster	127	6,197	1,275	1,277	424	1,264
Grand Forks	549	27,154	4 944	4,985	4,970	14 960
Griggs	125	6,046	1,770	1,763	1.009	3,041
Kidder	87	4,324	9 275	9,275	626	1.875
LaMoure	148	7 384	4,543	4.544	678	2,042
Logan	.....	.....	2,711	2.711	295	879
McHenry	42	2,084	17,414	17.785	227	706
McIntosh	13	638	1,725	1,730	1,321	6,928
McLean	30	1,495	3,158	3,154	487	1,484
Mercer	4	197	10,061	10,061	346	1,024
Morton	34	1,699	33,247	33 247	1,119	3,372
Nelson	149	7,178	8,619	8,638	1.294	3,788
Oliver	6	294	9,238	9,610	205	616
Pembina	140	6,955	6,972	7,423	4,980	14,837
Pierce	22	1.085	2,089	2,080	187	572
Ramsey	128	6,221	2,993	2,989	1,450	4,221
Ransom	119	5,756	3,188	3,393	1,026	3,038
Richland	478	24,081	3,770	3,861	3,730	11,244
Rolette	30	1,477	1,054	1,113	982	2,939
Sargent	145	7,124	1.551	1,587	1,470	4,320
Stark	15	751	16,646	16,646	474	1,391
Steele	207	10,382	1,893	1,991	1,951	5,833
Stutsman	105	5,113	9,796	10,153	548	1,631
Towner	236	11,396	678	706	905	2.876
Traill	875	43,400	2 298	2,301	3,657	10,700
Walsh	152	7,540	3,571	3,751	5,440	15.893
Ward	12	597	17,020	17,123	187	566
Wells	93	4,590	3,901	3,980	705	2,164
Williams	5	250	6,597	6,918	18	55
UNORGANIZED—						
Old Williams	.....	.....	2,375	2,375	14	42
Dunn	1	50	6,020	6,103	75	222
McKenzie	.....	.....	.....	.....	.....	.....
Allred	.....	.....	950	951	.....	.....
Wallace	.....	.....	.....	.....	.....	.....
Hettinger	.....	.....	10,890	11,525	.....	.....
Totals	5,742	$283,603	268,206	$272,494	56,367	$ 167,860

TOTAL ASSESSED VALUE OF PERSONAL PROPERTY FOR THE YEARS

COUNTIES.	1892. Total Value of all Personal Property as Equalized by the State Board of Equalization.....	1893. Total Value of all Personal Property as Equalized by the State Board of Equalization.....	1894. Total Value of all Personal Property as Equalized by the Board of Equalization of the State of North Dakota...
Barnes	$ 751,810	$ 748,464	$ 720,689
Benson	291,147	332,938	297,754
Billings	449,165	656,490	590,112
Bottineau	285,378	379,456	335,022
Burleigh	485,655	620,464	487,794
Cass	2,718,915	2,797,416	2,327,705
Cavalier	454,055	449,408	490,519
Dickey	694,105	606,325	472,166
Eddy	219,930	206,516	186,485
Emmons	251,560	285,586	270,840
Foster	174,698	178,146	148,768
Grand Forks	2,374,529	2,515,074	2,316,543
Griggs	366,248	366,630	331,916
Kidder	173,475	167,902	131,255
LaMoure	384,514	393,520	318,460
Logan	58,393	72,154	55,880
McHenry	250,030	280,973	215,994
McIntosh	307,542	285,220	277,556
McLean	85,953	117,707	103,640
Mercer	57,673	85,203	59,886
Morton	576,276	669,340	558,578
Nelson	498,436	499,555	479,757
Oliver	63,077	71,778	57,475
Pembina	1,416,929	1,524,060	1,359,302
Pierce	84,850	111,297	96,224
Ramsey	642,391	633,228	663,685
Ransom	593,388	614,599	499,856
Richland	1,110,412	1,199,170	1,080,199
Rolette	251,702	303,825	259,601
Sargent	505,478	579,797	495,799
Stark	308,340	353,239	407,216
Steele	454,005	501,695	451,767
Stutsman	551,663	545,850	471,875
Towner	218,188	262,240	279,387
Traill	1,611,139	1,768,289	1,505,587
Walsh	1,606,547	1,666,582	1,476,185
Ward	259,695	280,672	225,295
Wells	183,991	178,146	210,434
Williams	115,113	96,051	96,668
Total Value, Organized Counties...	$21,886,395	$23,405,005	$ 20,813,874
Total Value, Unorganized Counties.	$ 638,144	$ 635,438	$ 439,073
Grand total	$22,524,539	$24,040,443	$ 21,252,947

ABSTRACT OF ASSESSMENT OF ACRE REAL PROPERTY OF NORTH DAKOTA FOR THE YEARS 1892, 1893 AND 1894.

[NOTE.—Some of the footings in this and the following six tables, and a few of the other figures, differ from those published by the State Board of Equalization—errors having been discovered in the report of that Board. There may be other errors, as this office has not tested the accuracy of the calculations.]

NAMES OF COUNTIES.	1892.			1893.			1894.		
	Number of Acres.	Average Value per Acre	Value of Land Exclusive of Structures or Improvements.	Number of Acres of Land Exclusive of Town Lots.	Average Value per Acre	Value of Land (other than Town Lots) excluding Structures Thereon.	Number of Acres.	Average Value per Acre	Value of Land Exclusive of Structures or Improvements.
Barnes	739,049	$3 66	$ 2,706,670	757,658	3 65	2,763,297	775,890	$3 64	$ 2,820,684
Benson	117,356	3 47	407,071	127,034	3 44	437,556	143,957	3 42	501,213
Billings	43,165	52	22,745	54,685	49	26,669	54,499	48	26,159
Bottineau	92,058	2 69	247,760	105,431	2 67	281,960	117,650	3 08	363,446
Burleigh	640,352	2 23	1,427,522	654,815	2 23	1,460,564	664,062	2 18	1,449,220
Cass	1,010,617	6 14	6,209,332	1,031 917	6 14	6,337,479	1,051,380	6 75	7,106,122
Cavalier	221,643	2 63	584,323	231 526	2 63	607,847	264,657	2 78	736,974
Dickey	488,007	3 32	1,618 925	502,083	3 30	1,657,044	513,825	3 35	1,721,925
Eddy	146,815	3 14	461.550	153.970	3 15	484,790	164,812	3 14	517,857
Emmons	331,146	1 81	597,734	342,214	1 85	632,331	356,378	1 88	667,779
Foster	265,295	3 36	891,468	271,065	3 36	910,923	230,680	3 20	738,806
Grand Forks	775,402	5 15	3 989,672	788,931	5 13	4,053,085	805,089	6 22	5.013.658
Griggs	326,336	3 90	1,248,997	336,647	3 82	1,287,207	332,219	3 92	1,304,471
Kidder	498,520	1 61	804,399	504,277	1 62	816,526	504,093	1 60	809,404
LaMoure	531,275	3 38	1,797,148	545,908	3 38	1,846,526	546,390	3 09	1,688,773
Logan	299,078	1 08	322,366	299,606	1 08	322,936	304,978	1 08	332,689

McHenry	49,591	2 17	107,690	58,133	2 16	125,340	65,214	2 11	137,990
McIntosh	90,099	2 41	217,104	108,072	2 40	258,764	137,492	2 38	326,639
McLean	200,098	2 13	426,389	212,236	2 10	445,984	231,099	1 48	454,053
Mercer	105,139	1 07	112,981	210,222	78	164,091	209,914	88	186,745
Morton	516,961	1 33	691,890	674,219	1 16	783,918	731,996	1 34	942.743
Nelson	354,899	3 02	1,070,091	368 906	3 01	1,112,070	382,513	3 23	1,237,011
Oliver	242,248	86	209,029	244,967	88	214,740	243,993	87	214,227
Pembina	588,639	5 06	2,980,024	617.122	5 06	3,119,591	630,656	5 87	3,708,496
Pierce	40,345	2 99	120,825	46 818	3 00	140,611	52,155	3 00	156,265
Ramsey	290.584	3 60	1,046,634	304,283	3 60	1,094,068	324,852	3 60	1,170,630
Ransom	439,347	3 85	1.690,660	449,430	3 84	1,727,155	452,508	3 85	1,738,389
Richland	726,823	4 92	3,577,693	754,983	4 94	3,728.205	745,942	5 45	4,143,244
Rolette	90,562	3 24	292,989	101,302	3 21	325,174	115,357	3 53	407,992
Sargent	352.753	3 59	1,265,553	365,555	3 58	1,307.525	378,607	3 77	1,426,965
Stark	341,435	1 21	412,730	407,550	1 11	453,201	419,785	94	397,923
Steele	357,437	4 17	1,489,411	365,044	4 15	1,515,806	366,854	4 37	1,600,203
Stutsman	917,212	2 30	2,115.493	928,844	2 32	2,158,956	939,021	2 52	2,368,938
Towner	109.884	3 42	375,564	119,596	3 41	407,703	128,160	3 76	482,057
Traill	497 974	6 27	3 123.449	518 339	6 26	3,244,081	529.952	7 78	4,121,591
Walsh	626,982	4 64	2,909,355	639.783	4 61	2,951.865	652,148	5 90	3,855,804
Ward	37,781	2 22	84.984	41,782	2 27	94 922	41,931	1 77	74,367
Wells	283,505	3 07	869,649	294,946	3 07	905,904	303.012	3 06	926.716
Williams							1,016	2 45	2,495
Total organized Co's	13.786,412	$3 52	$48,527,869	$14,539,897	3 45	$50,207,224	14,914,716	$3 75	$ 55,880,663
UNORGANIZED.									
*Dunn, etc				12,000	.28	$ 3,400	12,480	.53	6,640
Grand total	$13,786,412	$3 52	$48,527,869	$14,551,897	$3 45	$50,210 624	14,927,196	$3 74	$ 55,887,303

*Attached to Stark.

COUNTY FINANCES.

COUNTIES.	BONDED DEBT.		FLOATING DEBT.	
	1893.	1894.	1893.	1894.
Barnes	$ 58,500 00	$ 58,000 00	$ 13,303 00	$ 11,138 08
Benson	27,500 00	27,500 00	5,892 00	5,365 00
Billings				
Bottineau	12,000 00	12,000 00	14,483 00	17,758 00
Burleigh	166,850 00	165.450 00	13 000 00	324 00
Cass	*50,000 00	50.000 00	25,137 00	25,019 10
Cavalier	38,500 00	38,500 00	10,000 00	10,000 00
Dickey	39,900 00	39,000 00		
Eddy	15,400 00	15,400 00	10,107 00	6,021 40
Emmons	45,000 00	45 000 00	680 00	3,943 00
Foster	27,000 00	27,000 00	9.895 00	8 554 02
Grand Forks	41,000 00	41.000 00		
Griggs	62.000 00	62.000 00	8,000 00	11,069 19
Kidder	53,500 00	60,666 60	6,355 00	6.501 60
LaMoure	7,000 00	7,000 00		5 000 00
Logan	8,500 00	8,500 00	8,138 00	7,698 24
McHenry	20.000 00	20,000 00	225 00	66 36
McIntosh	10,000 00	9,500 00	5,999 00	9,931 00
McLean	19,000 00	19,000 00	27,500 00	17,226 68
Mercer			20.000 00	17,074 12
Morton	65,000 00	65,000 00	21,754 00	20,932 09
Nelson	57,000 00	57,000 00	1 575 00	2,300 00
Oliver	3.000 00	3,000 00	41 00	61 00
Pembina	20,000 00	20,000 00	4,500 00	5,000 00
Pierce	8,000 00	8,000 00	118 00	49 70
Ramsey	88,000 00	86,149 00	2,034 00	3 356 00
Ransom	6,000 00	6,000 00	37,105 00	34,084 87
Richland	26,000 00	26,000 00	17,502 00	15.561 50
Rolette	22,000 00	22,000 00	17,000 00	16,000 00
Sargent	13,000 00	13,000 00	23,576 00	18,466 41
Stark	15,000 00	15,000 00	1,998 00	7,350 00
Steele	20,000 00	20,000 00	4,479 00	5,379 74
Stutsman	63,500 00	63,500 00		7.324 63
Towner	31,300 00	31,300 00	226 00	2,777 33
Traill	105 00	105 00	1,021 00	787 86
Walsh	34,000 00	34,000 00		
Ward	21,500 00	21,500 00	2,796 00	506 31
Wells	11,500 00	11,500 00	633 00	3,459 87
Totals	$1,206,555 00	$1,208,570 60	$ 315,072 00	$ 306 087 10

*$30,000.00 drainage bonds not included in this.

COUNTY FINANCES—*Continued.*

COUNTIES.	TOTAL DEBT.		SINKING FUND.	
	1893.	1894.	1893.	1894.
Barnes	$ 71,803 00	$ 69,138 08	$ 10,655 00	$ 5,656 82
Benson	33,392 00	32,865 00	412 00	580 00
Billings				
Bottineau	26,483 00	29,758 00		
Burleigh	179,850 00	165,774 00	7,677 00	10,272 00
Cass	75,137 00	75,019 10	6,537 00	13,845 26
Cavalier	48,500 00	48,500 00	2,780 00	3,615 84
Dickey	39,900 00	39,000 00	2,000 00	3,037 26
Eddy	25,507 00	21,421 40	1,973 00	2,821 39
Emmons	45,680 00	48,943 00		
Foster	36,895 00	35,554 02	406 00	1,273 84
Grand Forks	41,000 00	41,000 00	4,362 00	3,764 81
Griggs	70,000 00	73,069 19	2,056 00	2,709 49
Kidder	59,855 00	67,168 20	4,549 00	5,197 54
LaMoure	7,000 00	12,000 00	6,000 00	6,512 74
Logan	16,638 00	16,198 24		
McHenry	20,225 00	20,066 36	393 00	
McIntosh	15,999 00	19,431 00		
McLean	46,500 00	36,226 68	293 00	1,018 93
Mercer	20,000 00	17,074 12		
Morton	86,754 00	85,932 09		
Nelson	58,575 00	59,300 00	15,253 00	4,772 33
Oliver	3,041 00	3,061 00		
Pembina	24,500 00	25,000 00		
Pierce	8,118 00	8,049 70		
Ramsey	90,034 00	89,505 00	17,873 00	17,093 00
Ransom	43,105 00	40,084 87	1,674 00	2,099 57
Richland	43,502 00	41,561 50	12,251 00	10,462 86
Rolette	39,000 00	38,000 00		
Sargent	36,576 00	31,466 41	3,392 00	4,505 25
Stark	16,998 00	22,350 00		
Steele	24,479 00	25,379 74		
Stutsman	63,500 00	70,824 63	2,228 00	4,173 37
Towner	31,526 00	34,077 33	1,433 00	2,460 94
Traill	1,126 00	892 86	167 00	167 48
Walsh	34,000 00	34,000 00		
Ward	24,296 00	22,006 31	807 00	806 96
Wells	12,133 00	14,959 87	725 00	724 51
Williams				
Totals	$1,521,627 00	$1,514,657 70	$ 105,896 00	$ 107,572 19

COUNTY FINANCES—*Continued.*

COUNTIES.	CASH IN TREASURY			
	Subject to County Warrants.		Belonging to Cities, Towns, Townships, School Districts, Etc.	
	1893.	1894.	1893.	1894.
Barnes	$ 4,413 00	$ 14,582 07	$ 37,936 00	$ 30,531 95
Benson	1,460 00	1,216 00	3,995 00	1,443 00
Billlings	2,574 00	1,094 59	588 00	21 43
Bottineau	617 00	1,234 00	1,398 00	1,480 00
Burleigh	1,970 00	6,462 00	18,126 00	3,985 00
Cass	19,181 00	24,816 67	67,953 00	59,928 84
Cavalier	376 00	1,181 13	7,711 00	5,936 56
Dickey	2,400 00	2,655 47	7,517 00	7,376 27
Eddy	6,189 00	4,250 50	4,662 00	2,244 96
Emmons	684 00	4,468 15	9,009 00	5,736 28
Foster	1,481 00	645 15	2,727 00	3,657 52
Grand Forks	4,054 00	1,125 56	50,567 00	45,983 54
Griggs	3,720 00	3,241 64	10,259 00	8,395 96
Kidder	1,902 00	2,512 89	3,843 00	4,046 04
LaMoure	6,145 00	3,938 76	12,938 00	6,860 70
Logan	9,955 00	5,280 73	.....	1,300 01
McHenry	6,719 00	3,159 80	2,980 00	308 91
McIntosh	1,228 00	889 46	3,003 00	2,421 71
McLean	1,431 00	4,871 44	1,498 00	899 10
Mercer	345 00	1,008 31	85 00	540 69
Morton	12,545 00	5,455 36	9,597 00	4,592 27
Nelson	10,424 00	5,180 92	3,505 00	4,509 89
Oliver	2,527 00	1,759 85	1,010 00	621 83
Pembina	12,003 00	7,436 17	38,054 00	96,760 11
Pierce	888 00	577 84	1,696 00	424 89
Ramsey	2,368 00	4,111 00	5,374 00	9,714 00
Ransom	13,141 00	6,528 54	32,244 00	8,037 84
Richland	2,796 00	3,709 56	27,990 00	15,801 57
Rolette	.....	1,098 58	3,062 00	1,115 05
Sargent	4,605 00	.....	15,168 00	7,056 74
Stark	3,829 00	3,303 89	4,228 00	774 18
Steele	7,099 00	6,112 99	10,723 00	7,184 18
Stutsman	5,712 00	4,843 66	27,132 00	4,000 25
Towner	3,337 00	90 83	688 00	508 25
Traill	23,453 00	11,748 00	16,774 00	19,502 60
Walsh	24,181 00	14,298 55	30,337 00	28,286 85
Ward	1,614 00	2,148 22	896 00	1,149 07
Wells	1,286 00	2,159 88	1,645 00	2,166 71
Williams	2,201 00	1,802 35	.....	.....
Totals	$ 210,853 00	$ 170,910 52	$ 476,918 00	$ 405 304 75

TOWN AND VILLAGE FINANCES—1894.

Towns and Villages.	Bonded Debt.	Floating Debt.	Total Debt.	Cash in Treasury.	Cash in Co. Treasury.
Ardoch	$ 2,000 00	$	$ 2 000 00	$ 1,174 03	$
Bathgate	2,500 00	760 00	3 260 00	56 00	
Bottineau		150 00	150 00		50 00
Cavalier		500 00	500 00	10 00	
Cooperstown		766 02	766 02	57 34	246 46
Drayton	3,500 00	1,496 84	4.996 84	20 00	
Fairmount		125 00	125 00	60 00	
Forman	1,000 00	970 24	1,970 24		
Hamilton	1,000 00		1,000 00	343 91	
Hope	1,200 00	700 00	1,900 00		
*Lakota					
*LaMoure					
Milnor		1,200 00	1.200 00	75 00	
Milton	2,900 00	826 15	3,726 15	526 69	
Minto	5,000 00		5,000 00		
Neche				35 00	
Park River	8,500 00	2,000 00	10.500 00		600 00
Rolla	2,500 00		2,500 00	220 00	
Sanborn		25 00	25 00	43 64	238 00
Sheldon		635 83	635 83	457 80	
Towner				61 34	88 24
Willow City		461 82	461 82	15 84	114 72
Cando	3,000 00	1,632 56	4,632 56	2.053 21	
Williston		20 00	20 00	50 00	
Forest River		89 93	89 93		
†Michigan City					
Totals	$ 33,100 00	$ 12,359 39	$ 45,459 39	$ 5,259 80	$1,337 42

*No report. †Incorporated April, 1894.

CITY FINANCES—1894.

CITIES.	Bonded Debt.	Floating Debt.	Total Debt.	Cash in Treasury.	Cash in County Treasury.
Bismarck	$ 9,000 00	$ 58,800 00	$ 67,800 00	$ 6,500 00	$ .....
Casselton	5,000 00	.....	5,000 00	3,514 14	1,100 00
Crystal	2,400 00	1,200 00	3,600 00	.....	800 00
Devils Lake	17,000 00	2,500 00	19,500 00	4,000 00	.....
Fargo	209,000 00	84,312 97	293,312 97	44,218 70	20 000 00
Grafton	15,000 00	5,000 00	20,000 00	.....	.....
Grand Forks	228,000 00	20,000 00	248,000 00	30,000 00	.....
Hillsboro	4,500 00	1,900 00	6,400 00	900 00	1,275 80
Jamestown	65,000 00	4,000 00	69,000 00	2,559 80	.....
Langdon	2,500 00	651 64	3,151 64	179 93	587 86
Larimore	9,500 00	1,679 00	11,179 00	2,030 91	1,100 00
Lisbon	16,000 00	6,714 00	22,714 00	2,376 92	1.378 19
Mandan	34,000 00	7,593 83	41,593 83	1,832 37	3,172 16
Mayville	5,000 00	5,545 00	10,545 00	891 00	.....
Minot	4,458 59	.....	4,458 59	314 91	.....
Pembina	5,500 00	.....	5,500 00	139 36	.....
Portland	3,000 00	420 01	3 420 01	266 74	.....
Steele	25,000 00	.....	25,000 00	.....	.....
St. Thomas	2,000 00	756 62	2,756 62	663 86	.....
Valley City	15.000 00	.....	15,000 00	1,876 33	.....
Wahpeton	22,000 00	21,000 00	43,000 00	4 303 80	4,083 03
Ellendale	7,000 00	187 88	7,187 88	50 00	54 12
Oakes	5,000 00	.....	5,000 00	204 10	.....
Reynolds	.....	.....	.....	.....	.....
Northwood	.....	218 86	218 86	8 30	15 80
Totals	$ 710,858 59	$ 222,479 81	$ 933,338 40	$ 106 831 17	$ 33.566 96

CIVIL TOWNSHIPS—FINANCES.

[NOTE—The date of most of these statements is about March 1, 1894, though a few them are for a later date.]

COUNTIES.	CIVIL TOWNSHIPS.			Floating Debt.	Total Debt.	Cash in Treas'y,
	No. of Twps.	*	Bonded Debt.			
Barnes	15	...	$	$ 550 78	$ 550 78	$ 1,639 88
Benson	4	...	.....	549 55	549 55	154 64
Billings	....	...	.....	.....	.....	.....
Bottineau	....	...	.....	.....	.....	.....
Burleigh	8	...	.....	20 00	20 00	638 83
Cass	50	...	12,015 00	16,118 92	28,133 92	2,193 47
Cavalier	13	1	.....	688 06	688 06	2,005 90
Dickey	23	...	355 00	744 04	1,099 04	5,482 81
Eddy	....	...	.....	.....	.....	.....
Emmons	....	...	.....	.....	.....	.....
Foster	....	...	.....	.....	.....	.....
Grand Forks	42	...	10,950 00	5,787 02	16,737 02	9,155 05
Griggs	13	...	.....	324 75	324 75	883 75
Kidder	6	...	3,800 00	164 00	3,964 00	869 12
LaMoure	10	...	5,000 00	300 55	5,300 55	1,437 86
Logan	....	...	.....	.....	.....	.....
McHenry	....	...	.....	.....	.....	.....
McIntosh	....	...	.....	.....	.....	.....
McLean	....	...	.....	.....	.....	.....
Mercer	....	...	.....	.....	.....	.....
Morton	5	...	.....	289 11	289 11	550 89
Nelson	24	...	3,000 00	401 81	3,401 81	4,800 38
Oliver	....	...	.....	.....	.....	.....
Pembina	21	...	17,700 00	5,707 43	23,407 43	3,431 12
Pierce	....	...	.....	.....	.....	.....
Ramsey	16	...	.....	143 14	143 14	3,553 06
Ransom	9	...	1,300 00	120 00	1,420 00	1,684 39
Richland	24	...	2,500 00	2,223 05	4,723 05	7,026 04
Rolette	6	...	.....	754 58	754 58	37 92
Sargent	22	...	5,600 00	2,520 01	8,120 01	2,624 99
Stark	....	...	.....	.....	.....	.....
Steele	20	...	1,600 00	1,872 62	3,472 62	2,691 35
Stutsman	.. .	...	.....	.....	.....	.....
Towner	....	...	.....	.....	.....	.....
Traill	19	...	20,580 00	3,941 63	24,521 63	8,147 89
Walsh	33	...	18,745 00	6,183 45	24,928 45	8,371 12
Ward	1	...	.....	.....	.....	5 81
Total	384	1	$103,145 00	$49,404 50	$152,549 50	$ 67,386 27

*Number failing to report.

AREAS AND POPULATION OF STATES AND TERRITORIES

STATES AND TERRITORIES.	Square Miles.	Population.
Alabama	52,250	1,513,017
Arizona	113,020	59,620
Arkansas	53,850	1,128,179
California	158,360	1 208,130
Colorado	103,925	412,198
Connecticut	4 990	746.258
Delaware	2,050	168,493
District of Columbia	70	230,392
Florida	58,680	391 422
Georgia	59,475	1,837,353
Idaho	84 800	84,385
Illinois	56,650	3,826,351
Indiana	36,350	2,192,404
Indian Territory	31,400	179,321
Iowa	56,025	1,911,896
Kansas	82,080	1,427,096
Kentucky	40,400	1,858,635
Louisiana	48,720	1,118,587
Maine	33,040	661,086
Maryland	12,210	1,042,390
Massachusetts	8 315	2 238 943
Michigan	58.915	2,093,889
Minnesota	83,365	1,301,826
Mississippi	46,810	1,289,600
Missouri	69,415	2,679,184
Montana	146,080	132,159
Nebraska	77,510	1,058,910
Nevada	110,700	45,761
New Hamphire	9,305	376,530
New Jersey	7,815	1,444,933
New Mexico	122,580	153,593
New York	49.170	5,997,853
North Carolina	52,250	1,617,947
North Dakota	70,795	182.719
Ohio	41.060	3,672.316
Oklahoma	39 030	61,834
Oregon	96,030	313,767
Pennsylvania	45 215	5,258.014
Rhode Island	1 250	345 506
South Carolina	30,570	1,151,149
South Dakota	77,650	328,808
Tennessee	42 050	1,767,518
Texas	265,780	2 235.523
Utah	84.970	207,905
Vermont	9,565	332,422
Virginia	42 450	1.655.980
Washington	69 180	349 390
West Virginia	24,780	762,794
Wisconsin	56 040	1 686.880
Wyoming	97,890	60,705
Totals	3,025,600	62,801,571

AREAS OF COUNTIES IN NORTH DAKOTA.

[NOTE.—As portions of several of the western counties are yet unsurveyed, their area cannot be accurately known. In such Counties the unsurveyed land has been estimated.]

COUNTIES.	Square Miles.	COUNTIES.	Square Miles.
Barnes	1,512	Rolette	936
Benson	1,368	Sargent	864
Billings	3,360	Stark	1,310
Bottineau	1,700	Steele	720
Burleigh	1,692	Stutsman	2,304
Cass	1,764	Towner	1,044
Cavalier	1,512	Traill	864
Dickey	1,152	Walsh	1,584
Eddy	648	Ward	5,100
Emmons	1,584	Wells	1,296
Foster	648	Williams	3,420
Grand Forks	1,404		
Griggs	720	Total	60,146
Kidder	1,440		
LaMoure	1,152	UNORGANIZED.	
Logan	1,008		
McHenry	1,908	Allred	450
McIntosh	1,008	Bowman	1,224
McLean	3,400	Dunn	1,152
Mercer	1,100	Hettinger	2,160
Morton	3,168	McKenzie	1,080
Nelson	1,008	Wallace	1,323
Oliver	720		
Pembina	1,120	Unorginized Territory	2,660
Pierce	1,080		
Ramsey	1,224	Total Unorganized	10,049
Ransom	864		
Richland	1,440	Grand Total	70,195

NOTE.—In addition to the above the Census Bulletin give 600 square miles of water surface, which makes the total area of the State 70,795 square miles.

EXTRA CENSUS BULLETIN.

DEPARTMENT OF THE INTERIOR,
CENSUS OFFICE,
WASHINGTON, D. C., September 17, 1894.

SIR: The leading results of the investigation of farm and home proprietorship in North Dakota for 1890, conducted by Special Agents George K. Holmes and John S. Lord, are contained in this bulletin. In regard to farms, the conclusion is that 9.90 per cent. of the farm families hire and 90.10 per cent. own the farms cultivated by them; that 48.67 per cent. of the farm-owning families own subject to incumbrance, and 51.33 per cent. own free of incumbrance. Among 100 farm families, 10 hire their farms, 44 own with incumbrance, and 46 without incumbrance. On the owned farms there are liens amounting to $11,168,854, which is 36.30 per cent. of their value, and this debt bears interest at the average rate of 9.54 per cent., making the average annual interest charge $86 to each family. Each owned and incumbered farm, on the average, is worth $2,486, and is subject to a debt of $902.

The corresponding facts for homes are that 54.70 per cent. of the home families hire and 45.30 per cent. own their homes; that of the home-owning families 72.34 per cent. own free of incumbrance and 27.66 per cent. with incumbrance. In 100 home families, on the average, 55 hire their homes, 12 own with incumbrance, and 33 without incumbrance. The debt on owned homes aggregates $990,774, or 37.64 per cent. of their value, and bears interest at the average rate of 9.42 per cent., so that the annual amount of interest to each home avera ges $73. An average debt of $771 incumbers each home, which has the average value of $2,049.

Real estate purchase and improvements, when not associated with other objects, caused 42.14 per cent. of the farm families to incur 46 67 per cent. of the farm debt and 71.28 per cent. of the home families to incur 72.06 per cent. of the home debt.

Very respectfully,
CARROLL D. WRIGHT,
Commissioner of Labor in Charge.

The SECRETARY OF THE INTERIOR.

TABLE No. 1.

Number and Percentage of Families Occupying Owned and Hired and Free and Incumbered Farms and Homes—1890.

CIVIL DIVISION.	Aggregate.	FAMILIES OWNING.			Families Hiring.	Percentage of Families Owning and Hiring.		Percentage of Families Owning Free and Incumbered of Total Owning Families.		Percentage of Families Owning Free and Incumbered of Total Owning and Hiring Families.	
		Total.	Free.	Incumbered.		Owning.	Hiring.	Free.	Incumbered.	Free.	Incumbered.
The State.....	38,478	30,076	16,414	13,662	8 402	78 16	21.84	54.58	45.42	42.66	35.50
For farms.....	28.225	25,431	13,054	12,377	2.794	90.10	9.90	51.33	48.67	46.25	43.85
For homes.....	10,253	4,645	3,360	1 285	5 608	45.30	54.70	72.34	27.66	32.77	12.53

TABLE No. 2.

VALUE OF FARMS AND HOMES OCCUPIED BY OWNERS AND INCUMBERED AND AMOUNT AND PERCENTAGE OF INCUMBRANCE THEREON—1890.

CIVIL DIVISIONS.	Number of Families Owning with Incumbrance.	Value.	Incumbrance.	Percentage of Incumbrance of Value.
The State	13,662	$33,401 808	$12,159,628	36.40
For farms	12,377	30,769,226	11,168,854	36.30
For homes	1,285	2,632,582	990,774	37.64

TABLE No. 3.

AMOUNT OF ANNUAL INTEREST CHARGE AND AVERAGE VALUE, INCUMBERANCE, ANNUAL INTEREST CHARGE, AND ANNUAL RATE OF INTEREST FOR FARMS AND HOMES OCCUPIED BY OWNERS AND INCUMBERED—1890.

CIVIL DIVISIONS.	Average value of each incumberd farm or home.	Average incumberance on each farm or home	Total annual interest charge.	Average annual interest charge on each farm or home	Average annual rate of interest.
The State	$ 2,445	$ 890	$ 1,158,744	$ 85	9.53
For farms	2,486	902	1,065,385	86	9.54
For homes	2,049	771	93,359	73	9.42

TABLE No. 4.

PERCENTAGE OF FAMILIES OCCUPYING OWNED AND INCUMBERED FARMS AND HOMES AND AMOUNT OF INCUMBRANCE THEREON, BY RATES OF INTEREST—1890.

RATES OF INTEREST.	THE STATE.			
	For Farms.		For Homes.	
	For No. of Families.	For Amount.	For No. of Families.	For Amount.
Under 6 per cent	0.45	0.67	1.32	1.48
Six per cent	0.85	0.86	3.66	3.99
Seven per cent	7.26	6.35	7.39	6.12
Eight per cent	9.24	11.04	13.31	16.76
Six to 8 per cent., inclusive	18.45	21.77	24.83	27.78
Over 6 per cent	98.70	98.47	95.02	94.53
Over 8 per cent	81.10	77.56	73.85	70.74
Over 10 per cent	17.31	16.76	23.19	18.57
Over 12 per cent	2.11	1.91	1.32	0.88

TABLES FROM UNITED STATES CENSUS.

Number and Acreage of Farms, including Average Number of Acres in Farms, and Percentage of Unimproved Land.—1850 to 1890.

[The following several tables regarding farms, products, debts, valuations, taxations, etc., for the United States, are from the Abstract of the Eleventh Census, and are deemed of sufficient importance to be republished here.]

States and Territories.	Year.	Number.	Acreage.			Average size. (Acres.)	Perctge of acreage unimprvd.
			Total.	Improved.	Unimproved.		
The United States	1890	4,564,641	623,218,619	357,616,755	265,601,864	137	42.6
	1880	4,008,907	536,081,835	284,771,042	251 310,793	134	46.9
	1870	2,659,985	407,735,041	188,921,099	218,813,942	153	53.7
	1860	2,044,077	407,212,538	163.110,720	244,101,818	199	59.9
	1850	1,449,073	293,560,614	113,032,614	180,528,000	203	61.5
North Atlantic Division	1890	658,569	62,743,525	42,338,024	20,405,501	95	32.5
	1880	696,139	67,985,640	46,385,632	21,600,008	98	31.8
	1870	601,595	62,744,384	41,117,185	21,627,199	104	34.5
	1860	564,935	61,081 545	38,981.911	22,099,634	108	36.2
	1850	489,754	55,162,835	33,956,168	21.206,667	113	38.4
Maine	1890	62,013	6,179,925	3,044,666	3.135,259	100	50.7
	1880	64,309	6,552,578	3,484,908	3,067,670	102	46.8
	1870	59,804	5,838,058	2,917,793	2,920,265	98	50.0
	1860	55.698	5,727,671	2,704,133	3,023,538	103	52.8
	1850	46,760	4,555,393	2,039,596	2,515,797	97	55.2
New Hampshire	1890	29.151	3.459,018	1,727,387	1,731,631	119	50.1
	1880	32,181	3,721,173	2,308,112	1,413,061	116	38.0
	1870	29,642	3 605 994	2,334,487	1,271,507	122	35.3
	1860	30,501	3.744.625	2,367,034	1,377,591	123	36.8
	1850	29,229	3,392,414	2,251,488	1,140,926	116	33.6
Vermont	1890	32,573	4.395,646	2,655,943	1,739,703	135	39.6

Vermont	1880	35 522	1,882,588	3,286,461	1,596,127	137	32 7
	1870	33,827	4 528,804	3,073,257	1,455,547	131	32.1
	1860	31,556	4,274,414	2 823 157	1,451,257	135	34.0
	1850	29,763	4,125,822	2.601,409	1,524,413	139	36.9
Massachusetts	1890	34 374	2,998,282	1.657.024	1,341,258	87	44.7
	1880	38,406	3,359,079	2,128,311	1,230,768	87	36.6
	1870	26 500	2 730 283	1,736,221	994,062	103	36.4
	1860	35,601	3,338 724	2,155,512	1,183,212	94	35.4
	1850	34 069	3,356,012	2,133,436	1,222,576	99	36.4
Rhode Island	1890	5,500	469.281	274.491	194,790	85	41.5
	1880	6,216	514,813	298,486	216,327	83	42.0
	1870	5.368	502,308	289,030	213,278	94	42.5
	1860	5,406	521.224	335,128	186,096	96	35.7
	1850	5,385	553,938	356,487	197,451	103	35.6
Connecticut	1890	26,350	2.253 432	1,379.419	874,013	86	38.8
	1880	30.598	2,453,541	1,642,188	811,353	80	33.1
	1870	25,508	2,364,416	1.646,752	717 664	93	30.4
	1860	25,180	2,504 264	1.830,807	673 457	99	26.9
	1850	22,445	2,383,879	1 768,178	615,701	106	25.8
New York	1890	226,223	21,961,562	16,389,380	5,572,182	97	25.4
	1880	241,058	23,780,754	17,717,862	6,062,892	99	25.5
	1870	216,253	22,190,810	15,627,206	6,563,604	103	29.6
	1860	196,990	20,974,958	14,358,403	6,616,555	106	31.5
	1850	170,621	19,119,084	12,408,964	6,710,120	112	35.1
New Jersey	1890	30,828	2,662,009	1,999,117	662,892	86	24.9
	1880	34,307	2,929,673	2,096,297	833,476	85	28.4
	1870	30 652	2,989,511	1,976.474	1,013,037	98	33.9
	1860	27,646	2,983,525	1,944 441	1,039,084	108	34.9
	1850	23 905	2,752,946	1,767,991	984 955	115	35.8
Pennsylvania	1890	211 557	18,364,370	13.210 597	5 153.773	87	28.1
	1880	313 542	19 791,341	13,423.007	6.368,334	93	32.2
	1870	174,041	17.994,200	11,515,965	6,478,235	103	36.0

TABLE No. 1.—*Continued.*

NUMBER AND ACREAGE OF FARMS, INCLUDING AVERAGE NUMBER OF ACRES IN FARMS, AND PERCENTAGE OF UNIMPROVED LAND, 1850 TO 1890.

STATES AND TERRITORIES.	Year.	Number.	ACREAGE.			Average Size (Acres.)	Perctge of acreage unimprvd.
			Total.	Improved.	Unimproved.		
North Atlantic Division—Continued.							
Pennsylvania	1860	156,357	17,012,140	10,463,296	6,548,844	109	38.5
	1850	127,577	14,923,347	8,628,619	6,294,728	117	42.2
South Atlantic division	1890	749,600	100,157,573	41,677 371	58,480,202	134	58.4
	1880	644,429	101.419,563	36,170,331	65,249,232	157	64.3
	1870	374,102	90,213,055	30 202,991	60,010,064	241	66.5
	1860	301,940	106,520,771	34,900,942	71,619,829	353	67.2
	1850	248,196	93,401,610	30,009,323	63,392,287	376	67.9
Delaware	1890	9,381	1,055,692	762 655	293,037	113	27.8
	1880	8,749	1,090,245	746,958	343,287	125	31.5
	1870	7,615	1,052 322	698,115	354 207	138	33.7
	1860	6,658	1,004 295	637,065	367,230	151	36.6
	1850	6,063	956,144	580,862	375,282	158	39.2
Maryland	1890	40,798	4,952,390	3,412,908	1,539,482	121	31.1
	1880	40,517	5,119,831	3,342,700	1.777,131	126	34.7
	1870	27,000	4,512,579	2,914,007	1,598,572	167	35.4
	1860	25,494	4,835,571	3,002,267	1,833,304	190	37.9
	1850	21,860	4,634,350	2,797,905	1,836,445	212	39.6
District of Columbia	1890	382	11,745	9 898	1,847	31	15.7
	1880	435	18,146	12,632	5,514	42	30.4
	1870	209	11,677	8,266	3,411	56	29.2
	1860	238	34,263	17,474	16,789	144	49.0
	1850	267	27,454	16 267	11,187	103	40.7

Virginia	1890	127.600	19,104,951	9,125,545	9,979,406	150	52.2
	1880	118,517	19,835,785	8 510,113	11,325,672	167	57.1
	1870	73,849	18,145,911	8,165,040	9,980,871	246	55.0
	1860	92.605	31,117,036	11,437,821	19,679,215	324	63.2
	1850	77,013	26,152.311	10,360,135	15,792,176	340	60.4
West Virginia	1890	72,773	10,321,326	4,554,000	5,767,326	142	55.9
	1880	62,674	10,193,779	3,792,327	6,401,452	163	62.8
	1870	39,778	8,528,394	2,580,254	5,948,140	214	69.7
North Carolina	1890	178,359	22,651,896	7,828,569	14,823,327	127	65.4
	1880	157,609	22,363,558	6,481,191	15,882,367	142	71.0
	1870	93,565	19,835,410	5,258,742	14,576,668	212	73.5
	1860	75,203	23,762,969	6,517,284	17,245,685	316	72.6
	1850	56,963	20,996,983	5,453,975	15,543,008	369	74.0
South Carolina	1890	115,008	13,184.652	5.255,237	7,929,415	115	60.1
	1880	93,864	13,457,613	4,132,050	9,325,563	143	69.3
	1870	51,889	12,105,280	3,010,539	9,094,741	233	75.1
	1860	33,171	16,195.919	4,572,060	11.623,859	488	71.8
	1850	29,967	16,217,700	4 072,651	12,145,049	541	74.9
Georgia	1890	171,071	25,200,435	9,582,866	15,617,569	147	62.0
	1880	138,626	26,043,282	8,204,720	17,838,562	188	68.5
	1870	69,956	23,647,941	6,831,856	16,816,085	338	71.1
	1860	62,003	26,650,490	8,962,758	18.587,732	430	69.7
	1850	51,759	22,821,379	6,378,479	16,442,900	441	72.1
Florida	1890	34,228	3 674,486	1,145,693	2.528,793	107	68.8
	1880	23,438	3.297,324	947,640	2,349.684	141	71.3
	1870	10,241	2,373,541	736,172	1,637,369	232	69.0
	1860	6,568	2,920,228	654,213	2,266,015	444	77.6
	1850	4,304	1,595,289	349,049	1,246.240	371	78.1
North Central Division	1890	1,923,822	256,586.994	184,292,126	72,294 868	133	28.2
	1880	1,697,968	206 982.157	136,842 319	70,139,838	122	33.9
	1870	1,125.078	139 215,269	78,409,509	60,805,760	124	43.7
	1860	772,165	107.899,590	52,308,699	55,590,891	140	51.5
	1850	437,597	62 686,490	26,680,332	36,006,158	143	57.4

TABLE No. 1.—*Continued.*

NUMBER AND ACREAGE OF FARMS, INCLUDING AVERAGE NUMBER OF ACRES IN FARMS, AND PERCENTAGE OF UNIMPROVED LAND—1850 TO 1890.

STATES AND TERRITORIES.	Year.	Number.	ACREAGE.			Average Size (Acres.)	Perctge of acreage unimprvd.
			Total.	Improved.	Unimproved.		
North Central Division—Continued.							
Ohio	1890	251,430	23,352,408	18,338,824	5,013,584	93	21.5
	1880	247,189	24,529.226	18,081,091	6,448,135	99	26.3
	1870	195 953	21,712.420	14,469.133	7,243,287	111	33.4
	1860	179,889	20,472,141	12.625.394	7,846,747	114	38.3
	1850	143,807	17,997,493	9,851,493	8.146,000	125	45.3
Indiana	1890	198,167	20,362.516	15,107,482	5,255 034	103	25.8
	1880	194,013	20,420,983	13 933,738	6,487,245	105	31.8
	1870	161,289	18 119,648	10,104,279	8,015,369	112	44.2
	1860	131,826	16,388,292	8,242,183	8,146 109	124	49.7
	1850	93,896	12,793,422	5,046,543	7,746,879	136	60.6
Illinois	1890	240.681	30 498.277	25,669,060	4,829,217	127	15.8
	1880	255,741	31,673,645	26,115 154	5,558,491	124	17.5
	1870	202,803	25,882,861	19,329 952	6,552,909	128	25.3
	1860	143,310	20 911 989	13,096,374	7,815,615	146	32.6
	1850	76,208	12,037,412	5,039,545	6,997,867	158	58.1
Michigan	1890	172,344	14 785,636	9,865,350	4.920,286	86	33.3
	1880	154,008	13,807,240	8,296.862	5.510,378	90	39.9
	1870	98.786	10,019.142	5,096 939	4,922.203	101	49.1
	1860	62,422	7,030,834	3 476,296	3,544,538	113	50.5
	1850	34,089	4,383,890	1,929,110	2,454,780	122	56.0
Wisconsin	1890	146,409	16,787,988	9,793,931	6,994,057	115	41.7

	1880	134,322	15,353,118	9,162,528	6,190,590	114	40.3
	1870	102,904	11,715,321	5 899,343	5,815,978	114	50.5
	1860	69,270	7,893,587	3,746,167	4,147,420	114	52.5
	1850	20,177	2,976,658	1,045,499	1,931,159	148	64.9
Minnesota	1890	116,851	18 663,645	11,127 953	7 535 692	160	40.4
	1880	92,386	13,403,019	7,246,693	6 156 326	145	45.9
	1870	46,500	6,483,828	2,322,102	4 161,726	139	64.2
	1860	18,181	2,711,968	556,250	2 155.718	149	79.5
	1850	157	28,881	5,035	23,846	184	82.6
Iowa	1890	201,903	30,491,541	25,428,899	5,062 642	151	16.6
	1880	185,351	24,752,700	19,866 541	4,886 159	134	19.7
	1870	116,292	15.541,793	9,396,467	6,145,326	134	39.5
	1860	61,163	10,069,907	3,792,792	6,277,115	165	62.2
	1850	14,805	2,736,064	824 682	1,911,382	185	69.9
Missouri	1890	238,043	30,780,290	19,792,313	10,987,977	129	35.7
	1880	215,575	27,879 276	16,745,031	11,134,245	129	39.9
	1870	148,328	21,707,220	9,130,615	12 576,605	146	57.9
	1860	92,792	19,984,810	6,246 871	13,737,939	215	68.7
	1850	54,458	9,732,670	2,938,425	6,794,245	179	69.8
North Dakota	1890	27,611	7,660,333	4,658,015	3,002,318	277	39.2
South Dakota	1890	50,158	11,396,460	6,959,293	4,437,167	227	38.9
Dakota Territory	1880	17.435	3,800 656	1,150,413	2,650,243	218	69.7
	1870	1,720	302,376	42,645	259,731	176	85.9
	1860	123	26,448	2,115	24,333	215	92.0
Nebraska	1890	113,608	21,593,444	15,247,705	6,345,739	190	29.4
	1880	63,387	9,944,826	5,504,702	4,440,124	157	44.6
	1870	12,301	2,073,781	647,031	1,426,750	169	68.8
	1860	2,789	631,214	118,789	512,425	226	81.2
Kansas	1890	166,617	30,214,456	22,303,301	7,911,155	181	26.2
	1880	138.561	21,417,468	10,739,566	10,677,902	155	49.9
	1870	38,202	5,656,879	1,971,003	3,685,876	148	65.2

TABLE No. 1.—*Continued.*

NUMBER AND ACREAGE OF FARMS, INCLUDING AVERAGE NUMBER OF ACRES IN FARMS, AND PERCENTAGE OF UNIMPROVED LAND.

STATES AND TERRITORIES.	Year.	Number.	ACREAGE.			Average size. (Acres.)	Perctge of acreage unimprvd.
			Total.	Improved.	Unimproved.		
North Central Division—Continued.							
Kansas	1860	10,400	1,778,400	405.468	1,372,932	171	77.2
South Central Division	1890	1,086,772	156,448,294	66,288,824	90,159,470	144	57.6
	1880	886,648	133,500,223	49,806,771	83.693,452	151	62.7
	1870	510,998	99,343 247	31,088.775	68,254,472	194	68.7
	1860	370,373	118,992,965	33,232,226	85,760,739	321	72.1
	1850	266,814	77,645,466	22,038,946	55,606,520	291	71.6
Kentucky	1890	179,264	21,412,229	11.818 882	9,593,347	119	44.8
	1880	166,453	21,495,240	10,731.683	10,763,557	129	50.1
	1870	118.422	18,660,106	8,103,850	10,556,256	158	56.6
	1860	90,814	19,163,261	7,644,208	11,519,053	211	60.1
	1850	74,777	16,949,748	5,968,270	10,981,478	227	64.8
Tennessee	1890	174,412	20,161,583	9,362.555	10,799,028	116	53.6
	1880	165,650	20.666,915	8,496,556	12,170,359	125	58.9
	1870	118 141	19 581,214	6,843 278	12,737,936	166	65.1
	1860	82 368	20,669,165	6,795,337	13,873,828	251	67.1
	1850	72,735	18,984 022	5,175,173	13,808,849	261	72.7
Alabama	1890	157,772	19 853,000	7,698,343	12,154,657	126	61.2
	1880	135 864	18 855,334	6,375,706	12,479,628	139	66.2
	1870	67,382	14,961,178	5,062,204	9,898,974	222	66.2
	1860	55,128	19,104 545	6,385,724	12,718,821	346	66.6
	1850	41,964	12 137,681	4,435,614	7,702,067	289	63.5

Mississippi	1890	141 318	17,572,547	6,849,390	10,723,157	122	61.0
	1880	101,772	15,855,462	5,216,937	10,638,525	156	67.1
	1870	68,023	13,121,113	4,209,146	8,911,967	193	67.9
	1860	42,840	15,839,684	5,065,755	10,773,929	370	68.0
	1850	33,960	10,490,419	3,444,358	7,046,061	309	67.2
Louisiana	1890	69,294	9,544,219	3,774,668	5,769,551	138	60.5
	1880	48,292	8,273,506	2,739,972	5,533,534	171	66.9
	1870	28,481	7,025,817	2,045,640	4,980,177	247	70.9
	1860	17,328	9,298,576	2,707,108	6,591,468	536	70.9
	1850	13,422	4,989,043	1,590,025	3,399,018	372	68.1
Texas	1890	228,126	51,406,937	20,746,215	30,660,722	225	59.6
	1880	174,184	36,292,219	12,650,314	23,641,905	208	65.1
	1870	61,125	18,396,523	2,964,836	15,431,687	301	83.9
	1860	42,891	25,344,028	2,650,781	22,693,247	591	89.5
	1850	12,198	11,496,339	643,976	10,852,363	942	94.4
Oklahoma	1890	8,826	1,606,423	563,728	1,042,695	182	64.9
Arkansas	1890	124,760	14,891,356	5,475,043	9,416,313	119	63.2
	1880	94,433	12,061,547	3,595,603	8,465,944	128	70.2
	1870	49,424	7,597,296	1,859,821	5,737,475	154	75.5
	1860	39,004	9,573,706	1,983,313	7,590,393	245	79.3
	1850	17,758	2,598,214	781,530	1,816,684	146	69.9
Western Division	1890	145,878	47,282,233	23,020,410	24,261,823	324	51.3
	1880	83,723	26,194,252	15,565,989	10,628,263	313	40.6
	1870	48,212	16,219,086	8,102,639	8,116,447	336	50.0
	1860	34,664	12,717,667	3,686,942	9,030,725	367	71.0
	1850	6,712	4,664,213	347,845	4,316,368	695	92.5
Montana	1890	5,603	1,964,197	915,517	1,048,680	351	53.4
	1880	1,519	405,683	262,611	143,072	267	35.3
	1870	851	139,537	84,674	54,863	164	39.3
Wyoming	1890	3,125	1,830,432	476,831	1,353,601	586	73.9
	1880	457	124,433	83,122	41,311	272	33.2
	1870	175	4,341	338	4,003	25	92.2

TABLE No. 1.—*Continued.*

NUMBER AND ACREAGE OF FARMS, INCLUDING AVERAGE NUMBER OF ACRES IN FARMS, AND PERCENTAGE OF UNIMPROVED LAND.—1850 TO 1890.

STATES AND TERRITORIES.	Year.	Number.	ACREAGE.			Average Size (Acres.)	Perctge of acreage unimprvd.
			Total.	Improved.	Unimproved.		
Western Division—Continued.							
Colorado	1890	16,389	4 598,941	1,823,520	2,775,421	281	60.3
	1880	4,506	1,165,373	616,169	549,204	259	47.1
	1870	1,738	320,346	95,594	224,752	184	70.2
New Mexico	1890	4.458	787,882	263,106	524,776	177	66.6
	1880	5,053	631,131	237,392	393,739	125	62.4
	1870	4,480	833,549	143,007	690,542	186	82.8
	1860	5.086	1,414.909	149,274	1,265,635	278	89.4
	1850	3,750	290,571	166,201	124,370	77	42.8
Arizona	1890	1,426	1,297,033	104,128	1,192,905	910	92.0
	1880	767	135,573	56,071	79,502	177	58.6
	1870	172	21,807	14,585	7,222	127	33.1
Utah	1890	10,517	1,323,705	548 223	775,482	126	58.6
	1880	9,452	655,524	416,105	239 419	69	36.5
	1870	4.9.8	148,361	118,755	29,606	30	20.0
	1860	3,635	89.911	77,219	12,692	25	14.1
	1850	926	46,849	16,333	30,516	51	65.1
Nevada	1890	1,277	1,661,416	723,052	938,364	1,301	56.5
	1880	1,404	530,862	344,423	186,439	378	35.1
	1870	1,036	208.510	92,644	115,866	201	55.5
	1860	91	56,118	14,132	41,986	617	74.8

Idaho	1890	6,603	1,302 256	606 362	695,894	197	53.4
	1880	1 885	327,798	197 407	130 391	174	39.8
	1870	414	77,139	26,603	50,536	186	65.5
Washington	1890	18,056	4,179 190	1,820,832	2,358,358	231	56.4
	1880	6,529	1 409,421	484,346	925,075	216	65.6
	1870	3,127	649 139	192,016	457,123	208	70.4
	1860	1,330	366,156	81,869	284,287	275	77.6
Oregon	1890	25,530	6 909,888	3,516.000	3.393,888	271	49.1
	1880	16,217	4,214,712	2,198,645	2,016,067	260	47.8
	1870	7,587	2,389,252	1,116,290	1,272.962	315	53.3
	1860	5,806	2,060,539	896,414	1.164,125	355	56.5
	1850	1,164	432,808	132 857	299,951	372	69.3
California	1890	52,894	21,427 293	12,222,839	9.204,454	405	43.0
	1880	35 934	16 593,742	10,669.698	5,924,044	462	35.7
	1870	23.724	11.427,105	6,218,133	5,208,972	482	45.6
	1860	18,716	8,730,034	2,468,034	6,262,000	466	71.7
	1850	872	3,893,985	32,454	3,861,531	4,466	99.2

TABLE No. 2.

Farm Valuations—1850 to 1890.

States and Territories.	Year.	Land, Fences and Buildings.	Implements and Machinery.	Live Stock on Hand June 1.	Farm Products. (Estimated.) (*a b*)	Fertilizers Purchased (Cost) (*a c*)
The United States	1890	$ 13,279,252,649	$ 494,247,467	$ 2,208,767,573	$ 2,460,107,454	$ 38,469,598
	1880	10,197,096,776	406,520,055	1,500,384,707	2,212,540,927	28,586,397
	1870	*d*9,262,803,861	336,878,429	1,525 276,457	*e*2,447,538,658	.....
	1860	6,645,045,007	246,118,141	1 089,329,915	.....	.....
	1850	3,271,575,426	151,587,638	544,180,516	.....	.....
North Atlantic Division	1890	2,539,200,537	116,868 252	313,902,504	418,309,066	11,449,069
	1880	2,803,443,402	107,083,426	286.040,649	440,780,493	9,638,808
	1870	3,159,030,197	112,096,958	413,195.157	*e*634,223,687	.....
	1860	2,121,948,475	73,824,668	258,358,731	.....	.....
	1850	1,455,008,795	54,170,260	175,618,535	.....	.....
Maine	1890	98,567,730	5,499,413	18,280,140	22,049,220	456,515
	1880	102,357,615	4,948,048	16,499,376	21,945,489	212,135
	1870	102,961,951	4,809,113	23,357,129	*e*33,470,044	.....
	1860	78,688,525	3,298,327	15,437,533	.....	.....
	1850	54,861,748	2,284,557	9,705,726	.....	.....
New Hampshire	1890	66,162,600	3,594,850	10,450,125	13 761,050	246,293
	1880	75,834,389	3,069,240	9,812,064	13,474,330	165,393
	1870	80,589,313	3,459,943	15,246,545	*e*22,473,547	.....
	1860	69,689,761	2,683,012	10,924,627	.....	.....
	1850	55,245,997	2,314,125	8,871,901	.....	.....
Vermont	1890	80,427,490	4,733,560	16.644,320	20,364,980	217,397
	1880	109,346,010	4,879,285	16,586,195	22,082,656	127,670
	1870	139,367,075	5,250,279	23,888,835	*e*34,647,027	.....

a, *b*, *c*. *d* and *e*,—See foot notes last page of Table 2.

	1860	94,289,045	3,665,955	16,241,989	....	....
	1850	63,367,227	2,739,282	12,643,228	....	....
Massachusetts	1890	127,538,284	5,938,940	14,200,178	28,072,500	896,560
	1880	146,197,415	5,134,537	12,957,004	24,160,881	653,422
	1870	116,432,784	5,000,879	17,049,228	e32,192,378	....
	1860	123,255,948	3,894,998	12,737,744	....	....
	1850	109,076,347	3,209,584	9,647,710	....	....
Rhode Island	1890	21,873,479	941,030	2,364,970	4,218,300	172,900
	1880	25,882,079	902,825	2 254,142	3,670,135	140,318
	1870	21,574,968	786,246	3,135,132	e4,761,163	....
	1860	19,550,553	586,791	2,042,044	....	....
	1850	17,070,802	497,201	1,532,637	....	....
Connecticut	1890	95,000,595	3,075,495	9,974,618	17,924,310	609,649
	1880	121,063,910	3,162,628	10,959,296	18,010,075	497,448
	1870	124,241,382	3,246,599	17,545,038	e26,482,150	....
	1860	90,830,005	2,339,481	11,311,079	....	....
	1850	72,726,422	1,892,541	7,467,490	....	....
New York	1890	968,127,286	46,659,465	124,523,965	161,593,009	3,627,726
	1880	1,056,176,741	42,592,741	117,868,283	178,025,695	2,715,477
	1870	1,272,857,766	45,997,712	175,882,712	e253,526,153	....
	1860	803,343,593	29,166,695	103,856,296	....	....
	1850	554,546,642	22,084,926	73,570,499	....	....
New Jersey	1890	159 262 840	7,378 644	15,811,430	28,997,349	1,837,719
	1880	190,895,833	6 921,085	14,861,412	29,650,756	1,601,609
	1870	257,523,376	7,887,991	21,443,463	e42,725,198	....
	1860	180,250,338	5,746,567	16,134,693	....	....
	1850	120,237,511	4 425,503	10,679,291	....	....
Pennsylvania	1890	922 240,233	39,046,855	101,652,758	121,328,348	3,384,310
	1880	975,688,410	35,473,037	84,242,877	129,760,476	3,525,336
	1870	1,043,481,582	35,658,196	115,647,075	e183,946,027	....
	1860	662,050,707	22 442,842	69,672 726	....	....
	1850	407,876,099	14,722 541	41,500,053	....	....

TABLE NO. 2--FARM VALUATIONS—*Continued.*

STATES AND TERRITORIES.	Year.	Land, fences and buildings.	Implements and Machinery.	Live Stock on Hand June 1.	Farm Products. (Estimated.) (*a b*)	Fertilizers Purchased. (Cost.) (*a c*)
South Atlantic division	1890	$ 1,135,319,670	$ 36 444,018	$ 161 631,801	$ 292.847.809	$ 18,759.139
	1880	991,774,157	30,812,107	129,008,311	268,066.381	14,832,926
	1870	763.035.244	25,031,575	137,974,977	*e*308,044 920	.....
	1860	1,008,613 065	34.045,771	164,716,608	....	.....
	1850	576,590,583	24,656,545	104,961,353	....	.....
Delaware	1890	39,586,080	1,835,570	4,198,810	6,481,590	460,465
	1880	36,789.672	1,504,567	3,420,080	6,320,345	467,228
	1870	46,712,870	1 201,644	4,257,323	*e*8,171,667	.....
	1860	31 426.357	817,883	3,144,706	....	.....
	1850	18,880,031	510,279	1,849 281	....	.....
Maryland	1890	175,058,550	6,540,090	19,194,320	26,443 364	2.419,826
	1880	165,503,341	5,788,197	15.865,728	28,839,281	2,838,465
	1870	170,369.684	5,268,676	18,433,698	*e*35,343,927	....
	1860	145.973,677	4,010,529	14,667,853	....	....
	1850	87,178 545	2,463,443	7,997,634	....	....
District of Columbia	1890	6,471,120	79,760	129.120	373,070	16,651
	1880	3,632,403	36,798	123,300	514,441	22,352
	1870	3 800,230	39,450	114,916	*e*319,517	....
	1860	2,989,267	54,408	109,640	....	....
	1850	1,730,460	40,220	71,643	....	....
Virginia	1890	254 490.600	6,593,688	33,404,281	42,244,458	2,320,260
	1880	216,028,107	5,495,114	25,953,315	45,726,221	2,137 283
	1870	213,020,845	4.924,036	28,187.669	*e*51,774,801	....
	1860	371,761.661	9,392.296	47,803,049	....	....
	1850	216,401,543	7,021,772	33,656,659	....	....

West Virginia	1890	151,880,300	3,116.420	23,964,610	20,439,000	210 767
	1880	133,147,175	2 699,163	17,742,387	19,360,049	176,300
	1870	101,604,381	2,112,937	17,175,420	a23,379,692	.....
North Carolina	1890	183,977,010	7,183,210	25,547,280	50,070,530	2 882,238
	1880	135,793,602	6,078,476	22 414,659	51.729,611	2,111,767
	1870	78,211,083	4,082,111	21,993,967	a57,845,940	.....
	1860	143,301,065	5,873,942	31,130,805	.....	.....
	1850	67,891,766	3,931,532	17,717,647	.....	.....
South Carolina	1890	99,104,600	4.172,262	16,572,410	51,337,985	3,867,418
	1880	68,677.482	3,202,710	12,199 510	41,108,112	2,659,969
	1870	44.808.763	2,282,946	12.443,510	a41,909,402	.....
	1860	139.652,508	6,151,657	23,934,465	.....	.....
	1850	82,431,684	4,136,354	15,060,015	.....	.....
Georgia	1890	152,006,230	5.764,978	31,477,990	83,371,482	5,724,187
	1880	111,910,540	5 317,416	25,930,352	67,028,929	4,346,920
	1870	94.559,468	4,614,701	30,156,317	a80,390,228	.....
	1860	157,072,803	6,844,387	38,372,734	.....	.....
	1850	95,753,445	5,894,150	25,728,416	.....	.....
Florida	1890	72,745,180	1,158,040	7,142,980	12,086,330	857.327
	1880	20,291,835	689,666	5,358,980	7,439,392	72,642
	1870	9,947,920	505,074	5,212,157	a8,909,746	.....
	1860	16,435.726	900,669	5,553,356	.....	.....
	1850	6,323,109	658,795	2,880,058	.....	.....
North Central Division	1890	7,069,767,154	252.225,315	1,195,246,262	1,112,949,820	3,067,515
	1880	5,129,441,087	206,233,272	762,658,900	1,010,486,898	1,928,823
	1870	4,314,502,824	154,470,076	666.850.328	a979,168,099	.....
	1860	2,130,013,463	72,816,536	320,576,873	.....	.....
	1850	751,723,133	35,563,904	127,385,387	.....	.....
Ohio	1890	1,050,031,828	29,475,346	116.181,690	133,232,498	1,602,869
	1880	1,127,497,353	30,521,180	103,707,730	156,777,152	550,029
	1870	1,054,465,226	25,692,787	120,300,528	a198,256,907	.....

TABLE No. 2.—FARM VALUATIONS—*Continued.*

STATES AND TERRITORIES.	Year.	Land, Fences and Buildings.	Implements and Machinery.	Live Stock on Hand June 1.	Farm Products. (Estimated.)	Fertilizers Purchased (Cost.)
North Central Division—Con.						
Ohio	1860	$ 678,132,991	$ 17,538,832	$ 80,384 819	.....	.....
	1850	358,758,603	12,750,585	44,121,741	.....	.....
Indiana	1890	754,789,110	21.172,255	93,361 422	$ 94,759,262	$ 777,727
	1880	635,236,111	20,476,988	71,068,758	114,707,082	340,582
	1870	634,804,189	17,676,591	83,776,782	*a*122,914,302	.....
	1860	356,712,175	10,457,897	41,855,539	.....	.....
	1850	136,385,173	6,704,444	22,478,555	.....	.....
Illinois	1890	1,262,870,587	34,456,938	180,431,662	184,759,013	124 977
	1880	1,099,594,580	33,739,951	132,437,762	203,980 137	174,277
	1870	920,506,346	34,576,587	149,756,698	*a*210,860 585	.....
	1860	408,944,033	17,235,472	72 501,225	.....	.....
	1850	96,133,290	6,405,561	24,209,258	.....	.....
Michigan	1890	556,190,670	22 182,600	69,564,985	83,651.390	173,017
	1880	499,103,181	19 419,360	55,720,113	91,159,858	300,995
	1870	398,240,578	13,711,979	49,809,869	*a*81,508,623	.....
	1860	160,836,495	5,819,832	23,714,771	.....	.....
	1850	51,872,446	2,891,371	8,008,734	.....	.....
Wisconsin	1890	477,524,507	19,167,010	63,784,377	70,990,645	105.192
	1880	357,709,507	15,647,196	46,508,643	72,779,496	178,892
	1870	300,414,064	14.239.364	45,310,882	*a*78,027,032	.....
	1860	131,117,164	5,758,847	17 807,375	.....	.....
	1850	28,528,563	1,641,568	4,897,385	.....	.....
Minnesota	1890	340,059,470	16,916,473	57,725,683	71,238.230	61,578
	1880	193,724,260	13,089,783	31,904,821	49,468,951	93,250

	1870	97,847,442	6,721,120	20,118,841	a33,446,400	....
	1860	27,505,922	1,018,183	3,642,841	.....	....
	1850	161,948	15,981	92,859	....	....
Iowa	1890	857,581,022	36,665,315	206,436,242	159,347,844	86,843
	1880	567,430 227	29,371,484	124,715,103	136,103,473	98,567
	1870	392,662,441	20,509,582	82,987,133	a114,386,441	... .
	1860	119.899,547	5,327,033	22,476,293	....	....
	1850	16,657,567	1,172 869	3,689,275	....	... .
Missouri	1890	625,858,361	21,830,719	138,701,173	100,751,024	65,705
	1880	375.633 307	18,103,074	95,785,282	95,912,660	109,724
	1870	392,908,047	15.596.426	84,285,273	a103,035,759	....
	1860	230,632,126	8.711,508	53,693,673	....	....
	1850	63,225,543	3,981,525	19,887,580	....	....
North Dakota.....	1890	75,310,365	6,648,180	18,787,294	21,264,938	8,923
South Dakota.....	1890	107,466,335	8,371,712	20,231,509	22,047,270	15,075
Dakota Territory.....	1880	22,401,084	2,390,091	6,463,274	5,648,814	.....
	1870	2,085,265	142,612	779,952	a495,657	.....
	1860	96.444	15,574	39,116	.....	.....
Nebraska	1890	402,358,913	16,468,977	92,971,920	66 837,617	19,269
	1880	105,932,541	7,820,917	33,440,265	31.708,914	20,794
	1870	30,242,186	1,549,716	6.551.185	a8,604,742	.....
	1860	3,878,326	205,664	1,128,771	.....	.....
Kansas	1890	559,726,046	18,869,790	128,068,305	95,070,080	25,740
	1880	235,178,936	15 652,848	60,907,149	52,240.361	61,713
	1870	90,327,040	4,053,312	23,173,185	a27,630,651	.....
	1860	12,258 239	727,694	3,332,450	.....	.....
South Central Division.....	1890	1,440,022,598	58,343,772	351,028,828	480,337,764	4,952,013
	1880	981,555,689	46,588,624	234,521,752	398,385,416	2,036,741
	1870	847,883,344	37,309,475	218.578,639	a456,504,000	.....
	1860	1 313,981,684	61,283 058	296,852,429	.....	.....
	1850	479,563,983	36,747,775	128,946 397	.....	....

TABLE No. 2.—FARM VALUATIONS—*Continued.*

STATES AND TERRITORIES.	Year.	Land, Fences and Buildings.	Implements and Machinery.	Live Stock on Hand June 1.	Farm Products (Estimated.)	Fertilizers Purchased. (Cost.)
Kentucky	1890	$ 346,339,360	$ 10,906,506	$ 70,924,400	$ 65,948,485	$ 317.231
	1880	299,298,631	9,734,634	49,670,567	63,850,155	145,674
	1870	311,238,916	8,572,896	66,287,343	*a*87,477,374	.....
	1860	291,496,955	7,474 573	61,868,237	.....	.....
	1850	155,021,262	5,169,037	29,661,436	.....	.....
Tennessee	1880	242,700,540	9,936,880	60,254,230	55,194 181	361,097
	1880	206,749,837	9,054,863	43,651,470	62,076,311	157,442
	1870	218,743,747	8.199,487	55,084,075	*a*86,472,847	.....
	1860	271.358,985	8,465,702	60,211,425	.....	.....
	1850	97,851,212	5,360,210	29,978,016	.....	.....
Alabama	1890	111,051,390	4,511.645	30,776,730	66 240,190	2 421 648
	1880	78,954,648	3,788,978	23,787,681	56,872,994	1,200,956
	1870	67,739,036	3,286,924	26,690,095	*a*67,522,335	.....
	1860	175.824,629	7,433,178	43,411,711	.....	.....
	1850	64,323,224	5 125,663	21,690,112	.....	.....
Mississippi	1890	127,423,157	5,968,865	33 936,435	73,342,995	789.268
	1880	92,844,915	4,885 636	24,285,717	63,701,844	123,253
	1870	81,716,576	4,456,633	29.940,238	*a*73.137,953	.....
	1860	190,760,367	8,826,512	41,891,692	.....	.....
	1850	54,738,634	5,762,927	19,403,662	.....	.....
Louisiana	1890	85,381,270	7,167,355	17,898,380	54.343,953	906,348
	1880	58,989,117	5,435,525	12 345,905	42,883,522	278,305
	1870	68,215,421	7,159,333	15,929 188	*a*52,006,622	.....
	1860	204,789,662	18,648 225	24,546,940	.....	.....
	1850	75,814,398	11,576,938	11,152,275	.....	.....

Texas	1890	399,971,289	13,746 511	103,259,503	111,699,430	58,665
	1880	170,468 886	9,051 491	60,307,987	65,204,329	74,797
	1870	60,149,950	3,396,793	37,425,194	a49,185,170	.....
	1860	88,101,320	6,259,452	42,825,447	.....	.....
	1850	16,550,008	2,151,704	10,412,927	.....	.....
Oklahoma	1890	8,581,170	433,580	3 206 270	440,375	3,817
Arkansas	1890	118,574,422	5,672,400	30,772.880	53.128,155	93,939
	1880	74,249,655	4,637.497	20,472.425	43,796.261	56,314
	1870	40,029,698	2.237.409	17,222,506	a40,701,699	....
	1860	91,641,773	4,175,326	22,096,977	....	....
	1850	15 265,245	1 601,296	6,647,969	....	....
Western Division	1890	1.094 942,690	30,366.110	186,958,178	155.662,995	241,862
	1880	390,882,441	15,802 626	88,155,095	94 821.730	149,099
	1870	178,402,252	7,970 345	58,677,356	a69,598,952	....
	1860	70,488,320	4,148,108	48,825,274	....	....
	1850	8,688,932	449,154	7,268,844	....	....
Montana	1890	25.512,340	1,356,010	21,620,687	6,273.415	4,757
	1880	3.234,504	401,185	5,151,554	2,024,923	....
	1870	729,193	145,438	1,818,693	a1,676,660	....
Wyoming	1890	14,460,880	522,250	15,348,331	2,241,590	1,548
	1880	835,895	95,482	5,007,107	372,391	....
	1870	18,187	5,723	441,795	a42,760	....
Colorado	1890	85,035,180	2,728,850	22,594,010	13,136,810	25,074
	1880	25,109,223	910,085	8,703,342	5,035,228	5,195
	1870	3,385,748	272,604	2,871,102	a2,335,106	....
New Mexico	1890	8,140,800	291,140	7,247,180	1,784,820	9,217
	1880	5 514,399	255,162	5,010,800	1,897,974	10,733
	1870	2,260,139	121,114	2,389,157	a1,905.060	....
	1860	2,707,386	192,917	4,499,746	....	....
	1850	1.653.922	77,960	1,494,629	....	....

TABLE No. 2.—FARM VALUATIONS—*Continued.*

STATES AND TERRITORIES.	Year.	Land, Fences and Buildings.	Implements and Machinery.	Live Stock on Hand June 1.	Farm Products. (Estimated.)	Fertilizers Purchased. (Cost.)
Arizona	1890	$ 7,222,230	$ 196,580	$ 3,257,660	$ 1,045,970	$ 10
	1880	1,127,946	88,811	1,167,989	614,327	....
	1870	161,340	20,105	143,996	a277,998	....
Utah	1890	28,402,780	1,164,660	6,813,830	4,891,460	23,211
	1880	14 015,178	946,753	3,306,638	3,337,510	11,394
	1870	2,297,922	291,390	2,149,814	a1,973,142	....
	1860	1,333,355	242,889	1,516,707	....	....
	1850	311,799	84,288	546,968	....	....
Nevada	1890	12,339,410	537,480	5,801,820	2,705,660	2,019
	1880	5,408,325	378,788	3,399,749	2,855.449	2,526
	1870	1,485,505	163,718	1,445.449	a1,659,713	....
	1860	302,340	11,081	177,638	....	....
Idaho	1890	17,431,580	1,172,460	7,253,490	3,848,930	2,137
	1880	2,832.890	363,930	2,246,800	1,515,314	....
	1870	492,860	59,295	520,580	a637,797	....
Washington	1890	83,461,660	3,150,200	14 113,110	13,674,930	11,633
	1880	13 844 224	958.513	4.852,307	4,212,750	....
	1870	3.978.341	280,551	2,103,343	a2,111,902	....
	1860	2 217 842	190,402	1,099,911	....	....
Oregon	1890	115,819 200	4.556,770	22,648,830	19,026,120	13,370
	1880	56 908,575	2,956,173	13,808,392	13,234.548	10,519
	1870	22 352 989	1,293,717	6 828,675	a7,122,790	....
	1860	15,200,593	952,313	5,946.255	....	....
	1850	2,849,170	183,423	1,876,189	....	....

California	1890	697,116,630	14,689,710	60,259,230	87,033,290	148 886
	1880	262 051 282	8,447,744	35 500,417	59,721,425	108,732
	1870	141,240.028	5 316,690	37,964,752	*a*49,856,024	....
	1860	48,726,804	2 558,506	35 585,017	....	....
	1850	3,874,041	103,483	3,351,058	....	....

a For calendar year next preceding each census year.
b Not included in census reports previous to 1870.
c Not included in census reports previous to 1880.
d These values are expressed in currency which was at a discount in gold. For purposes of comparison they should be reduced by one-fifth. The average premium on gold during the twelve months (June 1, 1869, to May 31, 1870) was 25.3 per cent.
e Includes betterments and addition to stock.

TABLE No. 3—LIVE STOCK—1850 TO 1890.

STATES AND TERRITORIES.	Year.	Horses.	Mules and Asses.	NEAT CATTLE.			Swine.	Sheep, not Including Spring Lambs.
				Working Oxen.	Milch Cows.	Other Cattle.		
The United States.....	1890	14,969,467	2 295 532	1.117.494	16,511,950	33,734,128	57,409,583	35,935,364
	1880	10,357 488	1 812,808	993 841	12,443,120	22,488.550	47,681,700	35,192,074
	1870	7 145 370	1,125,415	1 319,271	8 935 332	13.566,005	25,134,569	28.477,951
	1860	6,249 174	1,151,148	2,254 911	8 585,735	14,779 373	33,512,867	22 471,275
	1850	4,336,719	559 331	1,700,744	6,385,094	9 693,069	30 354,213	21,723,220
North Atlantic Division.	1890	1,738,864	43 683	167 943	3,351,061	1,942,720	2,753 349	4,133,027
	1880	1 554 951	38,749	194,298	3 190,745	2,412,253	2,521,077	4,971,032
	1870	1,336,276	32,230	296,761	2,833.022	1,815 717	1.769,362	5,546,101
	1860	1,280,078	17.104	460,101	2,615 929	2.128,207	2,503,709	6,164.390
	1850	1 073,641	7,687	545 791	2,188,503	1,977,580	2,670,469	7,693,669
Maine	1890	109 156	278	33,105	157,278	108.727	91,297	370 484
	1880	87.848	298	43 049	150,845	140,527	74,369	565,918
	1870	71 514	336	60 530	139 259	143 272	45,760	434,666
	1860	60,637	104	79,792	147,314	149,827	54,783	452,472
	1850	41,721	55	83,893	133,556	125,890	54,598	451,577
New Hampshire.....	1890	52 458	123	23,648	109,423	89.817	58,585	131,611
	1880	46.773	87	29,152	90,564	112,689	53.437	211,825
	1870	39 095	37	40,513	90 583	91,705	33,127	248,760
	1860	41.101	10	51.512	94,880	118,075	51 935	310,534
	1850	34,233	19	59,027	94,277	114,606	63 487	384,756
Vermont.....	1890	89 969	330	21,249	231,419	142,620	92,083	333,947
	1880	75,215	283	18,868	217,033	167,204	76,384	439,870
	1870	65,015	252	27.809	180,285	112,741	46 345	580,347
	1860	69,071	43	42,639	174,667	153 144	52,912	752 201
	1850	61,057	218	48,577	146,128	154,143	66,296	1,014,122

Massachussetts	1890	63,638	196	9.831	172,046	74,251	91,483	51.438
	1880	59,629	243	14,571	150,435	96,045	80,123	67,979
	1870	41 039	103	24,430	114,771	79 851	49.178	78,560
	1860	47,786	108	38.221	144,492	97.201	73 948	114,829
	1850	42 216	34	46,611	130,099	83,284	81,119	188,651
Rhode Island.....	1890	9,864	51	2,609	23,943	8,225	12,055	11,400
	1880	9,661	46	3,523	21,460	10,601	14,121	17,211
	1870	7,770	43	5.821	18,806	9,748	14,607	23 938
	1860	7,121	10	7,857	19,700	11,548	17,478	32,624
	1850	6,168	1	8,189	18,698	9,375	19,509	44,296
Connecticut	1890	43,764	279	21,019	127,892	54,750	62 087	37,652
	1880	44,940	539	28,418	116.319	92,149	63,699	59,431
	1870	34 935	190	39,639	98.889	79,485	51,983	83 884
	1860	33,276	82	47,939	98,877	95,091	75,120	117,107
	1850	26,879	49	46,988	85,461	80,226	76,472	174,181
New York.....	1890	664,430	4 636	37,293	1,440 230	653,869	843,342	1,528,979
	1880	610,358	5,072	39,633	1,437,855	862,233	751,907	1,715,180
	1870	536,861	4,407	64,141	1,350,661	630,522	518,251	2,181,578
	1860	503,725	1,553	121.703	1.223,634	727.837	910,178	2,617,855
	1850	447,014	963	178,909	931,324	767,406	1,018,252	3,453,241
New Jersey.....	1890	86,925	8,227	1,825	161,576	48,661	224,388	55,409
	1880	86 940	9,267	2,022	152,078	69,786	219,069	117,020
	1870	79,708	8,853	3,830	133,331	60,327	142 ,563	120,067
	1860	79,707	6,362	10,067	138,818	89,909	236,089	135,228
	1850	63,955	4,089	12,070	118,736	80,455	250,370	160,488
Pennsylvania	1890	618 660	29,563	17,364	927,254	761,800	1,278,029	1,612,107
	1880	533,587	22,914	15,062	854,156	861,019	1,187,968	1,776,598
	1870	460,339	18,009	30,048	706,437	608,066	867,548	1,794,301
	1860	437,654	8,832	60,371	673,547	685,575	1,031,266	1,631,540
	1850	350,398	2,259	61,527	530,224	562,195	1,040,366	1,822,357
South Atlantic Division.	1890	880,758	417,393	262,982	1,369.466	2,257,659	5,082,321	2,445,386
	1880	801,239	346 944	236,282	1,280,761	2,343,660	5,691,583	2,530,006
	1870	590,924	230,852	218,026	1,001,094	1,719,736	3,859,677	2,109,580

TABLE No. 3—LIVE STOCK—*Continued.*

STATES AND TERRITORIES.	Year.	Horses.	Mules and Asses.	NEAT CATTLE.			Swine.	Sheep not Including Spring Lambs.
				Working Oxen.	Milch Cows.	Other Cattle.		
South Atlantic Div—Con	1860	774,191	273,083	294,983	1,238,633	2,417,247	7,193,473	2,540,965
	1850	770,806	153,098	270,445	1,246,678	2,662,792	7,497,036	2,980,105
Delaware.....	1890	25 656	4.819	3,846	32.574	15 424	44,981	12.265
	1880	21,933	3,931	5,818	27,284	20,450	48 186	21,967
	1870	16,770	3,584	6,888	24,082	19,020	39,818	22,714
	1860	16,562	2,294	9,530	22,595	25,596	47,848	18,857
	1850	13,852	791	9,797	19 248	24,166	56,261	27,503
Maryland.....	1890	130,395	14,161	17,066	142,198	107,925	312,020	132,329
	1880	117,796	12,561	22,246	122,907	117,387	335,408	171,184
	1870	89,696	9,830	22,491	94,794	98,074	257,893	129,697
	1860	93,406	9 829	34,524	99,463	119,254	387.756	155.765
	1850	75,684	5,644	34,135	86,856	98,595	352,911	177,902
District of Columbia.	1890	826	41	.....	863	125	1,306	14
	1880	1,027	68	4	1,292	271	1,132	.....
	1870	533	124	6	657	138	577	604
	1860	641	122	69	639	198	1,099	40
	1850	824	57	104	813	123	1,635	150
Virginia	1890	242,512	37.533	61,571	273,634	412,129	796,691	495,313
	1880	218,838	33,598	54,709	243,061	388,414	956,451	497,289
	1870	152,899	26,903	45,987	188,471	277,285	674,670	370 145
	1860	287,579	41.015	97.872	330,713	615 882	1,599,919	1,043 269
	1850	272,403	21,483	89,513	317,619	669,137	1,829,843	1,310,004
West Virgina.....	1890	154,722	7,390	29,366	188,492	348,208	411,018	785,063
	1880	126,143	6 226	12 643	156,956	288,845	510,613	674,769
	1870	90,479	2,139	18,937	101,434	178,309	268,031	552,327

North Carolina.....	1890	131,451	100,011	58,193	223,416	349,295	1,251,006	402,217
	1880	133,686	81,871	50,188	232,133	375,105	1,453,541	461,638
	1870	102,763	50,684	45,408	196,731	279,023	1,075,215	463,435
	1860	150,661	51,388	48,511	228,623	416,676	1,883,214	546,749
	1850	148,693	25,259	37,309	221,799	434,402	1,812,813	595,249
South Carolina.....	1890	59,888	86,306	26,150	107,184	134,959	494,696	79,421
	1880	60,660	67,005	24,507	139,881	199,321	628,198	118,889
	1870	44,105	41,327	17,685	98,693	132,925	395,999	124,594
	1860	81,125	56,456	22,629	163,938	320,209	965,779	233,509
	1850	97,171	37,483	20,507	193,244	563,935	1,065,503	285,551
Georgia.....	1890	103,501	157,377	49,108	287,717	537,101	1,396,362	440,459
	1880	98,520	132,078	50,026	315,073	544,812	1,471,003	527,589
	1870	81,777	87,426	54,332	231,310	412,261	988,566	419,465
	1860	130,771	101,069	74,487	299,688	631,707	2,036,116	512,618
	1850	151,331	57,379	73,286	334,223	690,019	2,168,617	560,435
Florida.....	1890	31,807	9,755	17,683	113,388	352,493	374,241	98,275
	1880	22,636	9,606	16,141	42,174	409,055	287,051	56,681
	1870	11,902	8,835	6,292	61,922	322,701	158,908	26,599
	1860	13,446	10,910	7,361	92,974	287,725	271,742	30,158
	1850	10,848	5,002	5,794	72,876	182,415	209,453	23,311
North Central Division..	1890	8,571,177	657,653	181,329	8,240,999	16,150,072	37,624,632	12,332,084
	1880	5,467,031	539,799	168,008	5,402,081	9,761,391	27,652,849	13,429,889
	1870	3,613,097	304,927	307,463	3,294,007	4,754,011	11,312,010	13,638,340
	1860	2,541,760	165,022	712,096	2,556,536	3,980,791	12,114,008	8,141,421
	1850	1,398,749	63,256	414,624	1,564,219	2,394,869	8,536,182	7,743,347
Ohio.....	1890	880,677	18,858	14,935	794,833	953,619	3,275,922	4,060,729
	1880	736,478	19,481	8,226	767,043	1,084,917	3,141,333	4,902,486
	1870	609,722	16,065	23,606	654,390	758,221	1,728,968	4,928,635
	1860	625,346	7,194	63,078	676,585	895,077	2,251,653	3,546,767
	1850	463,397	3,423	65,381	544,499	749,067	1,964,770	3,942,929
Indiana.....	1890	720,035	59,644	6,563	579,287	926,058	3,320,817	1,081,133
	1880	581,444	51,780	3,970	494,944	864,846	3,186,413	1,100,511
	1870	497,883	43,259	14,088	393,736	618,360	1,872,230	1,612,680

TABLE No. 3—LIVE STOCK—*Continued.*

STATES AND TERRITORIES.	Year.	Horses.	Mules and Asses.	NEAT CATTLE.			Swine.	Sheep, Not Including Spring Lambs.
				Working Oxen.	Milch Cows.	Other Cattle.		
North Central Div.—Con.								
Indiana	1860	520,677	28,893	117,687	363,553	588,144	3,099,110	991,175
	1850	314,299	6,599	40,221	284,554	389,891	2,263,776	1,122,493
Illinois	1890	1,335,286	107,875	6,579	1,087,886	1,968,654	5,924 818	922 631
	1880	1,023,082	123 278	3,346	865,913	1,515,063	5,170,266	1,037,073
	1870	853,738	85,075	19,766	640,321	1,055,499	2,703,343	1,568,286
	1860	563,736	38 539	90,380	522,634	970,799	2,502,308	769,135
	1850	267,653	10,573	76,156	294,671	541,209	1,915,907	894,043
Michigan	1890	516,117	3,822	29,795	497,611	519,365	1,126,141	2,400,318
	1880	378,778	5,083	40,393	384,578	466,660	964,071	2,189,389
	1870	228.302	2,353	36,499	250,859	260,171	417,811	1,985,906
	1860	136,917	330	61,686	179,543	238,615	372,386	1,271,743
	1850	58,506	70	55,350	99,676	119,471	205,847	746,435
Wisconsin	1890	460,740	5,752	20,481	792,620	834,846	1,347,750	984.972
	1880	352,428	7,136	28,762	478,374	622,005	1,128,825	1,336.807
	1870	252,019	4,195	53,615	308,377	331,202	512,778	1,069,282
	1860	116,180	1,030	93.652	203,001	225,207	334 055	332,954
	1850	30,179	156	42,801	64,339	76,293	159,276	124,896
Minnesota	1890	461,509	9,511	32,505	593,908	747,166	853,715	399.049
	1880	257,282	9,019	36,344	275,545	347.161	381,415	267.598
	1870	93,011	2,350	43,176	121,467	145,736	148,473	132 343
	1860	17,065	377	27,568	40,344	51,345	101,371	13,044
	1850	860	14	655	607	740	734	80
Iowa	1890	1,312,079	41,648	2,367	1,498,418	3,394,765	8,266,779	547,394

	1880	792,322	44,424	2,506	854,187	1,755,343	6,034,316	455,359
	1870	433,642	25,485	22,058	369,811	614,366	1,353,908	855,493
	1860	175,088	5,734	56,964	189,802	293,322	934,820	259,041
	1850	38,536	754	21,892	45,704	69,025	323,247	149,960
Missouri	1890	946,401	251,714	14,006	851,076	2,104,634	4,987,432	950,562
	1880	667,776	192,027	9,020	661,405	1,410,507	4,553,123	1,411,298
	1870	493,969	111,502	65,825	398,515	689,355	2,306,430	1,352,001
	1860	361,874	80,941	166,588	345,243	657,153	2,354,425	937,445
	1850	225,319	41,667	112,168	230,169	449,173	1,702,625	762,511
North Dakota	1890	130,931	8,709	21,339	88,289	172,246	92,213	136,413
South Dakota	1890	250,305	7,671	22,496	210,240	455,183	590,465	238,448
Dakota Territory	1880	41,670	2,703	11,418	40,572	88,825	63,394	30,244
	1870	2,514	225	2,425	4,151	6,191	2,033	1,901
	1860	84	19	348	286	167	287	193
Nebraska	1890	626,789	46,512	5,768	505,045	1,631,784	3,815,647	209,243
	1880	204,864	19,999	7,234	161,187	590,129	1,241,724	199,453
	1870	30,511	2,632	5,931	28,940	45,057	59,449	22,725
	1860	4,449	469	12,594	6,995	17,608	25,369	2,355
Kansas	1890	930,305	95,737	4,495	741,786	2,441,752	4,022,933	401,192
	1880	430,907	64,869	16,789	418,333	1,015,935	1,787,969	499,671
	1870	117,786	11,786	20,774	123,440	229,753	206,587	109,088
	1860	20,344	1,496	21,551	28,550	43,354	138,224	17,569
South Central Division	1890	2,354,662	1,093,722	488,764	2,829,657	8,406,062	10,894,270	6,217,868
	1880	1,921,393	736,713	358,392	2,147,440	5,853,610	10,938,958	5,102,311
	1870	1,311,534	523,636	451,401	1,494,434	4,573,665	7,582,955	3,232,244
	1860	1,435,819	678,843	716,633	1,859,117	5,148,720	11,136,692	3,572,464
	1850	1,056,250	324,225	439,467	1,356,491	2,367,467	11,609,287	2,892,610
Kentucky	1890	401,356	151,649	58,926	364,516	642,649	2,036,746	937,124
	1880	372,648	116,153	36,166	301,882	505,746	2,225,225	1,000,269
	1870	317,034	99,230	69,719	247,615	382,993	1,838,227	936,765
	1860	355,701	117,634	108,999	269,215	457,845	2,330,595	938,990

TABLE No. 3.—LIVE STOCK—*Continued.*

STATES AND TERRITORIES.	Year.	Horses.	Mules and Asses.	NEAT CATTLE.			Swine.	Sheep, Not Including Spring Lambs.
				Working Oxen.	Milch Cows.	Other Cattle.		
South Cent. Div.—Con..								
Kentucky—Con.....	1850	315,682	65,609	62,274	247,475	442,763	2,891,163	1,102,091
Tennessee.....	1890	311,842	203 639	40,630	345,311	579,398	1 922,912	540,996
	1880	266,119	173,498	27,312	303,900	452,462	2,160,495	672,789
	1870	247,254	102,983	63,970	243,197	336,529	1.828,690	826,783
	1860	290,882	126,345	102,158	249,514	413,060	2,347,32[illegible]	773,317
	1850	270,636	75,303	86,255	250,456	414,051	3,104,800	811,591
Alabama.....	1890	121,207	134,800	97,300	292,088	486,588	1,421,884	386,380
	1880	113,950	121,081	75,534	271,443	404,213	1,252,462	347,538
	1870	80,770	76,675	59,176	170,640	257,347	719,757	241,934
	1860	127,063	111,687	88,316	230,537	454,543	1,748,321	370,156
	1850	128,001	59,895	66,961	227,791	433,263	1,904,540	371,880
Mississippi.....	1890	155,050	156,755	95,577	310,159	509,042	1,163,141	451,779
	1880	112,309	129,778	61,705	268,178	387,452	1,151,818	287,694
	1870	90,221	85,886	58,146	173,899	269,030	814 381	232,732
	1860	117,571	110,723	105,603	207,646	416.660	1.532,768	352,632
	1850	115,460	54,547	83,485	214,231	436,254	1,582,734	304.929
Louisiana.....	1890	126,777	88,028	41,975	167,223	371.905	569,935	186,167
	1880	104,428	76,674	41,729	146,454	282,418	633,489	135,631
	1870	59,738	61.338	32,596	102,076	200.589	338,326	118,602
	1860	78,703	91,762	60,358	129 662	326,787	634,525	181,253
	1850	89,514	44,849	54,968	105,576	414,798	597,301	110,333
Texas.....	1890	1,026,002	227,432	98,284	1,003,439	5,099,829	2,252,476	3,454,858

	1880	805,606	132,447	90,502	606 176	3,387,927	1,950,371	2,411,633
	1870	424,504	61,322	132,407	128,048	2,933,588	1,202,145	714,351
	1860	325,698	63,334	172,492	601,540	2,761,736	1,371,532	753,363
	1850	76,760	12,463	51,285	217,811	61,018	692,022	100,530
Oklahoma	1890	25,554	4,923	1,627	16,756	108,572	21,962	16,565
Arkansas	1890	186,874	126,496	54,445	330,165	608,079	1,505,214	243,999
	1880	146,333	87,082	25,444	249,407	433,392	1,565,098	246,757
	1870	92,013	36,202	35,387	128,959	193,589	841,129	161,077
	1860	140,198	57,358	78,707	171,603	318,089	1,171,630	202,753
	1850	60,197	11,559	34,239	93,151	165,320	836,727	91,256
Western Division	1890	1,424,006	83,081	16,476	720,767	4 977,615	1,055 011	10,806,999
	1880	612,874	50,603	36,861	422,093	2,117,636	877,233	9,158,836
	1870	293,539	33,770	45,620	312,775	702,876	610,565	3,951,686
	1860	217,326	17,096	71,098	315,520	1,104,408	564,985	2,052,035
	1850	37,273	11,065	30,417	29,203	290,361	41,239	413,489
Montana	1890	142,959	959	546	24,143	667,209	17,132	1,859,016
	1880	35.114	858	936	11,308	160,143	10.278	184,277
	1870	5,289	475	1,761	12,432	22,545	2,599	2,024
Wyoming	1890	87,403	1,242	630	11,684	673.655	6 794	712,520
	1880	11,975	671	718	3,730	273.625	567	140,225
	1870	584	283	922	707	9,501	146	6,409
Colorado	1890	155,170	7,139	1.282	70,948	639,631	64,358	717,990
	1880	42,257	2,581	2 080	28,770	315,989	7.656	746,443
	1870	6,446	1,173	5,566	25 017	40,153	5,509	120,928
New Mexico	1890	38.130	8,367	4,990	18,507	554,014	10,471	1,248,970
	1880	14,547	9,063	16 432	12,955	137.314	7,857	2,088,831
	1870	5,033	6,141	19,774	16,417	21,343	11,267	619,438
	1860	10,066	11 291	25,266	34,369	29,094	10.313	830,116
	1850	5.079	8,654	12,257	10,635	10,085	7.314	377,271
Arizona	1890	15,780	946	150	4,874	263,098	6,217	102,427

TABLE NO. 3--LIVE STOCK—*Continued.*

STATES AND TERRITORIES	Year.	Horses.	Mules and Asses.	NEAT CATTLE.			Swine.	Sheep, not Including Spring Lambs.
				Working Oxen.	Milch Cows.	Other Cattle.		
Western Division—Con.								
Arizona—Continued.	1880	6,798	891	984	9,156	34,843	3,819	76,524
	1870	335	401	587	938	3,607	720	803
Utah.....	1890	65,057	1,554	427	45,982	153,857	27,046	1,014,176
	1880	38,131	2,898	3,968	32,768	58,680	17,198	233,121
	1870	11,068	2,879	3,479	17,563	18,138	3,150	59,672
	1860	4,565	851	9,168	11,967	12,959	6,707	37,332
	1850	2,429	325	5,266	4,861	2,489	914	3,262
Nevada.....	1890	56,788	1,723	52	9,273	201,575	7,373	273,469
	1880	32,087	1,258	765	13,319	158,137	9,080	133,695
	1870	7,520	990	2,443	6,174	22,899	3,295	11,018
	1860	541	134	620	947	3,904	3,571	376
Idaho.....	1890	84,135	1,012	346	27,278	191,807	32,188	357,712
	1880	24,300	610	737	12,838	71,292	14,178	27,326
	1870	2,151	371	522	4,171	5,763	2,316	1,021
Washington	1890	153,770	1,345	3,787	70,721	180,626	90,274	265,267
	1880	45,848	626	3,821	27,622	103,111	46,828	292,883
	1870	11,138	943	2,181	16,938	28,135	17,491	44,063
	1860	4,772	159	2,571	9,660	16,228	6,383	10,157
Oregon.....	1890	224,962	4,946	3,144	114,156	403,348	208,259	1,780,312
	1880	124,107	2,804	4,132	59,549	352,561	156,222	1,083,162
	1870	51,702	2,581	2,441	48,325	69,431	119,455	318,123
	1860	36,772	980	7,469	53,170	93,492	81,615	86,052

	1850	8,046	420	8,114	9,427	24,188	30,235	15,382
California.....	1890	399,852	53 848	1,122	317,201	1,048,795	584.899	2,475,140
	1880	237,710	28.343	2,288	210,078	451,941	603,550	4,152 349
	1870	192,273	17,533	5 944	164,093	461,361	444,617	2,768,187
	1860	160.610	3,681	26,004	205,407	948,731	456,396	1,088,002
	1850	21,719	1,666	4,780	4,280	253,599	2,776	17,574

TABLE No. 4.

Acreage and Production of Cereals—1850 to 1890.

States and Territories.	Year.	Barley.		Buckwheat.		Indian Corn.	
		Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels.
The United States	1890	3,220,834	78,332,976	837,164	12,110,349	72,087,752	2,122,327,547
	1880	1,997,727	43,997,495	848,389	11,817,327	62,368,504	1,754,591,676
	1870	.....	29,761,305	.....	9,821,721	.....	760,944,549
	1860	.....	15,825,898	.....	17,571,818	.....	838,792,742
	1850	.....	5,167,015	.....	8,956,912	.....	592,071,104
North Atlantic Division	1890	406,062	9,587,050	549,498	8,750,506	2,172,038	72,191,305
	1880	410,041	8,932,137	632,072	9,560,283	2,740,199	91,038,700
	1870	.....	9,047,525	.....	7,979,599	.....	67,257,881
	1860	.....	5,941,416	.....	12,566,529	.....	67,145,711
	1850	.....	4,171,631	.....	6,972,625	.....	56,629,174
Maine	1890	11,972	286,262	22,395	466,411	10,891	380,662
	1880	11,106	242,185	20,135	382,701	30,997	960,633
	1870	.....	658,816	.....	466,635	.....	1,089,888
	1860	.....	802,108	.....	239,519	.....	1,546,071
	1850	.....	151,731	.....	104,523	.....	1,750,056
New Hampshire	1890	4,934	112,378	3,117	75,048	23,746	988,806
	1880	3,461	77,877	4,535	94,090	36,612	1,350,248
	1870	.....	105,822	.....	100,034	.....	1,277,768
	1860	.....	121,103	.....	89,996	.....	1,414,628
	1850	.....	70,256	.....	65,265	.....	1,573,670
Vermont	1890	16,427	420,761	13,429	271,216	41,790	1,700,688
	1880	10,552	267,625	17,649	356,618	55,249	2,014,271
	1870	.....	117,333	.....	415,096	.....	1,699,882

	1860	.....	79,211	.....	225,415	.....	1,525,411
	1850	.....	42,150	.....	209,819	.....	2,032,396
Massachusetts	1890	1,785	38,715	2,473	31,300	34,010	1,330,101
	1880	3,171	80,128	5,617	67,117	52,555	1,797,768
	1870	.....	133,071	.....	58,049	.....	1,397,807
	1860	.....	134,891	.....	123,202	.....	2,157,063
	1850	.....	112,385	.....	105,895	.....	2,345,490
Rhode Island	1890	363	8,009	41	349	7,819	253,810
	1880	715	17,783	105	1,254	11,893	372,967
	1870	.....	33,559	.....	1,444	.....	311,957
	1860	.....	40,993	.....	3,573	.....	461,497
	1850	.....	18,875	.....	1,245	.....	539,201
Connecticut	1890	273	5,747	4,006	46,104	40,445	1,471,979
	1880	575	12,286	11,231	137,563	55,796	1,880,421
	1870	.....	26,458	.....	148,155	.....	1,570,364
	1860	.....	20,813	.....	309,107	.....	2,059,835
	1850	.....	19,999	.....	229,297	.....	1,935,043
New York	1890	349,311	8,220,242	280,029	4,675,735	493,320	15,109,969
	1880	356,629	7,792,062	291,228	4,461,200	779,272	25,690,156
	1870	.....	7,434,621	.....	3,904,030	.....	16,462,825
	1860	.....	4,186,668	.....	5,126,307	.....	20,061,049
	1850	.....	3,585,059	.....	3,183,955	.....	17,858,400
New Jersey	1890	47	1,043	13,520	114,626	267,648	8,637,011
	1880	240	4,091	35,373	466,414	344,555	11,150,705
	1870	.....	8,283	.....	353,983	.....	8,745,384
	1860	.....	24,915	.....	877,386	.....	9,723,336
	1850	.....	6,492	.....	878,934	.....	8,759,704
Pennsylvania	1890	20,950	493,893	210,488	3,069,717	1,252,369	42,318,279
	1880	23,592	438,100	246,199	3,593,326	1,373,270	45,821,531
	1870	.....	529,562	.....	2,532,173	.....	34,702,006
	1860	.....	530,714	.....	5,572,024	.....	28,196,821
	1850	.....	165,584	.....	2,193,692	.....	19,835,214

TABLE No. 4.—ACREAGE AND PRODUCTION OF CEREALS—*Continued.*

STATES AND TERRITORIES.	Year.	BARLEY.		BUCKWHEAT.		INDIAN CORN.	
		Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels.
South Atlantic Division	1890	4,755	84,482	28,978	277,897	9,623,254	131,455,786
	1880	4,380	68,133	63,271	608,896	9,709,842	129,266,107
	1870	.....	84,326	.....	228,037	.....	86,527,333
	1860	.....	128,003	.....	745,777	.....	134,492,952
	1850	.....	45,132	.....	344,854	.....	125,504,362
Delaware	1890	12	205	325	3,081	174,796	3,097,164
	1880	19	523	397	5,857	202,120	3,894,264
	1870	.....	1,799	.....	1,349	.....	3,010,390
	1860	.....	3,646	.....	16,355	.....	3,892,337
	1850	.....	56	.....	8,615	.....	3,145,542
Maryland	1890	818	18,778	7,569	96,747	586,817	14,928,142
	1880	226	6,097	10,294	136,667	664,928	15,968,533
	1870	.....	11,315	.....	77,867	.....	11,701,817
	1860	.....	17,350	.....	212,338	.....	13,444,922
	1850	.....	745	.....	103,671	.....	10,749,858
District of Columbia	1890	.....	.....	2	20	349	10,755
	1880	.....	.....	.....	.....	1,032	29,750
	1870	.....	.....	.....	7	.....	28,020
	1860	.....	175	.....	445	.....	80 840
	1850	.....	75	.....	378	.....	65,230
Virginia	1890	2,051	40,982	5,170	41,199	1,600 690	27,172,493
	1880	859	14,223	16,463	136,004	1,768,127	29,119,761
	1870	.....	7,259	.....	45,075	.....	17,649 304
	1860	.....	68,846	.....	478,090	.....	38,319,999
	1850	.....	25,437	.....	214,898	.....	35,254,319

West Virginia	1890	326	5,387	13,696	120,469	592,763	13,730,506
	1880	424	9,740	30,334	285,298	565,785	14 090,609
	1870	.....	50,363	.....	82,916	.....	8,197,865
North Carolina	1890	302	3,521	1,800	12,621	2 360,627	25,783 623
	1880	230	2,421	5,725	44,668	2,305,419	28,019,839
	1870	.....	3,186	.....	20,109	.....	18,454 215
	1860	.....	3,445	.....	35,924	.....	30,078,564
	1850	.....	2,735	.....	16,704	.....	27,941,051
South Carolina	1890	688	9,428	65	472	1,345,990	13,770,417
	1880	1,162	16,257	.....	.....	1,303,404	11,767,099
	1870	.....	4,752	.....	312	.....	7,614,207
	1860	.....	11,490	.....	602	.....	15 065,606
	1850	.....	4,583	.....	283	.....	16,271,454
Georgia	1890	549	6,053	332	3,162	2,582,316	29 261,422
	1880	1,430	18,662	58	402	2,538,733	23 202,018
	1870	.....	5,646	.....	402	.....	17,646,459
	1860	.....	14,682	.....	2,023	.....	30,776,293
	1850	.....	11,501	.....	250	.....	30,080,099
Florida	1890	9	128	19	126	378,906	3,701,264
	1880	21	210	.....	.....	360,294	3 174.234
	1870	.....	12	.....	.....	.....	2,225,056
	1860	.....	8,369	.....	.....	.....	2,834,391
	1850	.....	.....	.....	55	.....	1,996,809
North Central Division	1890	1 838,285	47,257,785	254,975	3,042,395	44,873 346	1,598,870,008
	1880	864,692	19,007,888	145,401	1,571,759	35,697,248	1,285,284,661
	1870	.....	10,612,507	.....	1,504,684	.....	439,244,945
	1860	.....	4,908,723	.....	4,140,622	.....	406,166.733
	1850	.....	831,517	.....	1,601,771	.....	222,208,502
Ohio	1890	37,092	1,059,915	14,052	162,833	3,189,553	113.892,318
	1880	57,482	1.707,129	22,130	280,229	3,281,923	111,877.124
	1870	.....	1,715.221	.....	180,341	.....	67,501,144
	1860	.....	1,663,868	.....	2,370.650	.....	73,543,190
	1850	.....	354,358	.....	638,060	.....	59,078,695

TABLE No. 4—ACREAGE AND PRODUCTION OF CEREALS—*Continued.*

STATES AND TERRITORIES.	Year.	BARLEY.		BUCKWHEAT.		INDIAN CORN.	
		Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels.
North Central Division—Continued.							
Indiana	1890	10,280	250,200	9,548	99,959	3,586,190	108,843,094
	1880	16,399	382,835	8,846	89,707	3,678,420	115,482,300
	1870	.....	356 262	.....	80,231	.....	51,094,538
	1860	....	382,245	.....	396,989	.....	71,588,919
	1850	.....	45,483	.....	149,740	.....	52,964,363
Illinois	1890	41,390	1,197,206	9,763	107,080	7,863,025	289,697,256
	1880	55,267	1,229,523	16,457	178,859	9,019,381	325,792 481
	1870	.....	2,480,400	.....	168,862	.....	129,921,395
	1860	.....	1,036,338	.....	324,117	.....	115,174,777
	1850	.....	110,795	.....	184,504	.....	57,646,984
Michigan	1890	99,305	2,522,376	70,046	811,977	994,597	28,785,579
	1880	54,506	1,204.316	33,948	413,062	919,656	32,461,452
	1870	.....	834,558	.....	436,755	.....	14,086,238
	1860	.....	307,868	.....	529,916	.....	12,444,676
	1850	.....	75,249	.....	472,717	.....	5,641,420
Wisconsin	1890	474,914	15,225,872	77,458	1,064.178	1,120,341	34,024,216
	1880	204,335	5,043,118	34,117	299,107	1,015,393	34 230 579
	1870	.....	1,645,019	.....	408,897	.....	15,033,998
	1860	.....	707,307	.....	38,987	.....	7,517,300
	1850	.....	209,692	.....	79,878	.....	1,988,979
Minnesota	1890	358,510	9,100,683	22,090	281,705	901,690	24,696,446
	1880	116,020	2,972,965	3,677	41,756	438,737	14,831,741

	1870	.....	1,032,024	.....	52,438	.....	4,743,117
	1860	.....	109,668	.....	28,052	.....	2,941 952
	1850	.....	1,216	.....	515	.....	16,725
Iowa	1890	518,729	13,406,122	25,243	286 746	7,585,522	313,130,782
	1880	198,861	4 022,588	16,318	166,895	6 616,144	275,014,247
	1870	.....	1,960,779	.....	109,432	.....	68,935,065
	1860	.....	467,103	.....	215,705	.....	42,410,686
	1850	.....	25,093	.....	52,516	.....	8,656,799
Missouri	1890	1,504	34,863	2,802	28,440	6,072.121	196,999,016
	1880	6,472	123,031	5,463	57,640	5,588,265	202,414,413
	1870	.....	269,240	.....	36,252	.....	66,034,075
	1860	.....	228,502	.....	182 292	.....	72,892,157
	1850	.....	9,631	.....	23,641	.....	36,214,537
North Dakota	1890	109,400	1,570,717	147	939	11,954	178,729
South Dakota	1890	97,370	902,005	1,561	11,423	753,309	13,152,008
Dakota Territory	1880	16,156	277,424	321	2,521	90,852	2,000,864
	1870	.....	4,118	.....	179	.....	133,140
	1860	.....	.....	.....	115	.....	20,269
Nebraska	1890	82,590	1,822,111	15,358	120,000	5,480,279	215,895,996
	1880	115,201	1,744 686	1,666	17,562	1,630,660	65,450,135
	1870	.....	216,481	.....	3,471	.....	4,736,710
	1860	.....	1,108	.....	12,224	.....	1,482,080
Kansas	1890	7,201	165,715	6,907	67.115	7,314,765	259,574,568
	1880	23,993	300,273	2,458	24 421	3,417,817	105,729,325
	1870	.....	98,405	.....	27,826	.....	17,025,525
	1860	.....	4,716	.....	41,575	.....	6,150,727
South Central division	1890	12,587	282,552	2,510	22,251	15,164 533	314,701,239
	1880	28,928	596,712	6,113	44,822	14,062,153	245,520,048
	1870	.....	370,199	.....	83,173	.....	165,583,195
	1860	.....	383,783	.....	38,473	.....	229,595,558
	1850	.....	107,219	.....	37,230	.....	187,338,602

TABLE NO. 4—ACREAGE AND PRODUCTION OF CEREALS—*Continued.*

STATES AND TERRITORIES.	Year.	BARLEY.		BUCKWHEAT.		INDIAN CORN.	
		Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels.
South Central Division—Con.....							
Kentucky.....	1890	5,776	165,959	384	3,804	2,960,382	78,434,847
	1880	20,089	486,326	1,024	9,942	3,021,176	72,852,263
	1870	.....	238,486	.....	3,443	.....	50,091,006
	1860	.....	270,685	.....	18,928	.....	64,043,633
	1850	.....	95,343	.....	16,097	.....	58,672,591
Tennessee	1890	3,585	63,866	1,231	7,143	2,791,324	63,635,350
	1880	2,600	30,019	4,907	33,434	2,904,873	62,764,429
	1870	.....	75,068	.....	77,437	.....	41,343,614
	1860	.....	25,144	.....	14,481	.....	52,089,926
	1850	.....	2,737	.....	19,427	.....	52,276,223
Alabama.....	1890	200	1,996	352	4,622	2,127,302	30,072,161
	1880	511	5,281	42	363	2,955,929	25,451,278
	1870	.....	5,174	.....	144	.....	16,977,948
	1860	.....	15,135	.....	1,347	.....	33,226,282
	1850	.....	3,958	.....	348	.....	28,754,048
Mississippi.....	1890	80	875	56	345	1,706,352	26,148,144
	1880	44	348	.....	.....	1,570,550	21,340,800
	1870	.....	3,973	.....	1,619	.....	15,637,316
	1860	.....	1,875	.....	1,699	.....	29,057,682
	1850	.....	228	.....	1,121	.....	22,446,552
Louisiana.....	1890	41	598	.....	.....	837,516	13,081,954
	1880	.....	.....	.....	.....	742,728	9 889,689
	1870	.....	1,226	.....	260	.....	7,596,628
	1860	.....	224	.....	160	.....	16,853,745

	1850	.....	.....	.....	3	.....	10,266,373
Texas	1890	2,782	48,152	99	1,263	3,079,907	69,112,150
	1880	5,527	72,786	48	535	2,468,587	29,065,172
	1870	.....	44,351	.....	44	.....	20,554,538
	1860	.....	67,562	.....	1,349	.....	16,500,702
	1850	.....	4,776	.....	59	.....	6,028,876
Oklahoma	1890	17	112	.....	.....	13,307	234,315
Arkansas	1890	166	994	388	5,074	1,648,443	33,982,318
	1880	157	1,952	92	548	1,298,310	24,156,417
	1870	.....	1,921	.....	226	.....	13,382,145
	1860	.....	3,158	.....	509	.....	17,823,588
	1850	....	177	.....	175	.....	8,893,939
Western Division	1890	959,145	21,121,107	1,203	17,300	254,581	5,109,209
	1880	689,686	15,292,625	1,532	31,567	159,062	3,482,160
	1870	.....	9,646,748	.....	26,228	.....	2,331,195
	1860	.....	4,463,973	.....	80,417	.....	1,391,788
	1850	.....	11,516	.....	432	.....	390,464
Montana	1890	4,652	160,902	13	128	1,019	14,225
	1880	1,323	39,970	34	437	197	5,649
	1870	.....	85,756	.....	988	.....	320
Wyoming	1890	486	11,763	20	140	1,977	25,172
	1880	.....	.....	.....	.....	.....	.....
	1870	.....	.....	.....	.....	.....	.....
Colorado	1890	12,086	331,556	117	2,081	119,310	1,511,907
	1880	4,112	107,116	8	110	22,991	455,968
	1870	.....	35,141	.....	178	.....	231,903
New Mexico	1890	1,484	35,024	81	714	28,539	583,489
	1880	2,548	50,053	.....	.....	41,449	633,786
	1870	.....	3,876	.....	10	.....	640,823
	1860	.....	6,099	.....	6	.....	709,304
	1850	.....	5	.....	100	.....	365,411

TABLE No. 4—ACREAGE AND PRODUCTION OF CEREALS—*Continued.*

STATES AND TERRITORIES.	Year.	BARLEY.		BUCKWHEAT.		INDIAN CORN.	
		Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels.
Western Division—Continued.....							
Arizona	1890	10,644	252,992	.....	.....	4,331	82,532
	1880	12,404	239,051	.....	.....	1,818	34,746
	1870	.....	55,077	.....	.....	.....	32,041
Utah	1890	6,440	163,328	15	316	5,782	84,760
	1880	11,268	217,140	.....	.....	12,207	163,342
	1870	.....	49,117	.....	178	.....	95,557
	1860	.....	9,976	.....	68	.....	90,482
	1850	.....	1,790	.....	332	.....	9,899
Nevada.....	1890	8,081	237,192	.....	.....	274	6,540
	1880	19,399	513,470	.....	.....	487	12,891
	1870	.....	295,452	.....	985	.....	9,660
	1860	.....	1,597	.....	.....	.....	460
Idaho.....	1890	10,004	236,471	16	395	1,362	24,695
	1880	8,291	274,750	.....	.....	569	16,408
	1870	.....	72,316	.....	.....	.....	5,750
Washington.....	1890	51,551	1,269,140	27	430	9,583	156,413
	1880	14,680	566,537	106	2,498	2,117	39,188
	1870	.....	55,787	.....	316	.....	21,781
	1860	.....	4,621	.....	707	.....	4,712
Oregon	1890	37,722	874,353	250	2,678	12,101	238,203
	1880	29,311	920,977	372	6,215	5,646	126,862
	1870	.....	210,736	.....	1,645	.....	72,138

	1860	.....	26,251	.....	2,749	.....	76,122
	1850	.....	.....	.....	.....	.....	2,918
California.....	1890	815,995	17,548,386	664	10,388	70,303	2,381,270
	1880	586,350	12,463,561	1,012	22,307	71,781	1,993,325
	1870	.....	8,783,490	.....	21,928	.....	221,222
	1860	.....	4,415,426	.....	76,887	.....	510,708
	1850	.....	9,712	.....	.....	.....	12,236

TABLE No. 4.—ACREAGE AND PRODUCTION OF CEREALS—*Continued.*

STATES AND TERRITORIES.	Year.	OATS.		RYE.		WHEAT.	
		Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels.
The United States	1890	28,320,677	809,250,666	2,171,604	28,421,398	33,579,514	468,373,968
	1880	16,144,593	407,858,999	1,842,233	19,831,595	35,430,333	459,483,137
	1870	.....	282,107,157	.....	16,918,795	.....	287,745,626
	1860	.....	172,643,185	.....	21,101,380	.....	173,104.924
	1850	.....	146,584,179	.....	14,188,813	.....	100,485,944
North Atlantic Division	1890	3,141,114	86,891,504	682,930	8,085,361	1,917,709	32,012,544
	1880	2,906,929	83,967.199	813,841	7,997,590	2,410,758	34,178,947
	1870	.....	84,951,544	.....	7,325,920	.....	35,153,555
	1860	.....	77,996,598	.....	13,127,041	.....	24,569,681
	1850	.....	59,570,301	.....	11,779,509	.....	31,181,273
Maine	1890	121,612	3,668,909	791	6,664	4,116	79,826
	1880	78,785	2,265,575	2,161	26,398	43,829	665,714
	1870	.....	2,351,354	.....	34,115	.....	278,793
	1860	.....	2,988,939	.....	123,287	.....	233,876
	1850	.....	2,181,037	.....	102,916	.....	296,259
New Hampshire	1890	26,618	892 243	1,056	11,962	2,027	35,192
	1880	29,485	1,017,620	3,218	34,638	11,248	169,316
	1870	.....	1,146,451	.....	47,420	.....	193,621
	1860	.....	1,329,233	.....	128,247	.....	238,965
	1850	.....	973,381	.....	183,117	.....	185,658
Vermont	1890	101,582	3,316,141	3,379	43.256	8,397	164,720
	1880	99,548	3,742,282	6,319	71,733	20,748	337,257
	1870	.....	3,602,430	.....	73,346	.....	454,703
	1860	.....	3,630,267	.....	139,271	.....	437,037
	1850	.....	2.307,734	.....	176,233	.....	535,955

Massachusetts	1890	14,331	388,819	10,665	117,091	112	1,813
	1880	20,659	645,159	21,666	213,716	963	15,768
	1870	.....	797,664	.....	239,227	.....	34,648
	1860	.....	1,180,075	.....	388,085	.....	119,783
	1850	.....	1,165,146	.....	481,021	.....	31,211
Rhode Island	1890	3,648	100,520	779	9,617	11	91
	1880	5,575	159,339	1,270	12,997	17	240
	1870	.....	157,010	.....	20,214	.....	784
	1860	.....	244,453	.....	28,250	.....	1,131
	1850	.....	215,232	.....	26,409	.....	49
Connecticut	1890	24,428	593,691	16 100	214,935	443	7,482
	1880	36,691	1,009,706	29,794	370,733	2,198	38,742
	1870	.....	1,114,595	.....	289,057	.....	38,144
	1860	.....	1,522,218	.....	618,702	.....	52,401
	1850	.....	1,258,738	.....	600,893	.....	41,762
New York	1890	1,417,371	38.896,479	236,874	3,065,623	462,561	8,304,539
	1880	1,261,171	37,575,506	244,923	2,634,690	736,611	11,587,766
	1870	.....	35,293,625	.....	2,478,125	.....	12,178,462
	1860	.....	35,175,134	.....	4,786,905	.....	8,681,105
	1850	.....	26,552,814	.....	4,148,182	.....	13,121,498
New Jersey	1890	121,327	2,837,293	77,245	874,049	121,570	1,823,382
	1880	137,422	3,710,573	106,025	949,064	149,760	1,901.739
	1870	.....	4.009,830	.....	566,775	.....	2,301,433
	1860	.....	4,539,132	.....	1,439,497	.....	1,763,218
	1850	.....	3,378,063	.....	1,255,578	.....	1,601,190
Pennsylvania	1890	1,310,197	36,197,409	336,041	3,742,164	1,318,472	21,595,499
	1880	1,237,593	33,841,439	398,465	3 683,621	1,445,384	19,462,405
	1870	.....	36,478,585	.....	3,577,641	.....	19,672,967
	1860	.....	27,387,147	.....	5,474,788	.....	13,042,165
	1850	.....	21,538,156	.....	4,805,160	.....	15,367,691
South Atlantic Division	1890	2,203,751	23,736,705	184,640	1,268,879	2,670,335	27,435,104
	1880	2,231,526	21,992,934	195,064	1,152,226	3,244,860	28,534,367

TABLE No. 4—ACREAGE AND PRODUCTION OF CEREALS—*Continued.*

STATES AND TERRITORIES.	Year.	OATS.		RYE.		WHEAT.	
		Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels.
South Atlantic Division—Con.....							
	1870	.....	18,908,338	.....	1,652,310	.....	22,326,598
	1860	.....	20,220,026	.....	2,160,144	.....	28,737,216
	1850	.....	23,294,810	.....	1,026,774	.....	20,493,117
Delaware.....	1890	19,374	382,900	775	6,625	94,368	1,501,050
	1880	17,158	378,508	773	5,953	87,539	1,175,272
	1870	.....	554,388	.....	10,222	.....	895,477
	1860	.....	1,046,910	.....	27,209	.....	912,941
	1850	.....	604,518	.....	8,066	.....	482,511
Maryland.....	1890	99,195	2,019,658	34,302	352,596	510,727	8,348,177
	1880	101,127	1,794,872	32,405	288,067	569,296	8,004,864
	1870	.....	3,221,643	.....	307,089	.....	5,774,503
	1860	.....	3,959,298	.....	518,901	.....	6,103,480
	1850	.....	2,242,151	.....	226,014	.....	4,494,680
District of Columbia.....	1890	63	1,371	111	1,099	30	600
	1880	267	7,440	301	3,704	284	6,402
	1870	.....	8,500	.....	3,724	.....	3,782
	1860	.....	29,548	.....	6,919	.....	12,760
	1850	.....	8,134	.....	5,509	.....	17,370
Virginia.....	1890	495,508	5,695,100	52,063	397,394	737,510	7,904,092
	1880	563,443	5,333,181	48,746	324,431	901,177	7,826,174
	1870	.....	6,857,555	.....	582,264	.....	7,398,787
	1860	.....	10,186,720	.....	944,330	.....	13,130,977
	1850	.....	10,179,144	.....	458,930	.....	11,212,616

West Virginia	1890	180,815	2,946,653	14,962	117,113	349,016	3,634,197
	1880	126,931	1,908,505	17,279	113,181	393,068	4,001,711
	1870	.....	2,413,749	.....	277,746	.....	2,483,543
North Carolina	1890	541,851	4,512,762	56,496	276,339	666,509	4,292,035
	1880	500,415	3,838,068	61,953	285,160	646,829	3,397,393
	1870	.....	3,220,105	.....	352,006	.....	2,859,879
	1860	.....	2,781,860	.....	436,856	.....	4,743 706
	1850	.....	4,052,078	.....	229,563	.....	2,130,102
South Carolina	1890	308,056	3,019.119	4,129	17,303	115,510	658,351
	1880	261,445	2,715,505	7,152	27,049	170,902	962,358
	1870	.....	613,593	.....	36,165	.....	783,610
	1860	.....	936,974	.....	89,091	.....	1,285,631
	1850	.....	2,322,155	.....	43,790	.....	1,066,277
Georgia	1890	516,886	4,767,821	20,949	87,021	196,633	1,096,312
	1880	612,778	5,548,743	25,854	101,716	475,684	3,159,771
	1870	.....	1,904,601	.....	82,549	.....	2,127,017
	1860	.....	1,231 817	.....	115,532	.....	2,544,913
	1850	.....	3,820,044	.....	53,750	.....	1,088,534
Florida	1890	42,003	391,321	853	13,389	32	290
	1880	47,962	468,112	601	2,965	81	422
	1870	.....	114,204	.....	545	.....	.....
	1860	.....	46,899	.....	21,306	.....	2 808
	1850	.....	66,586	.....	1,152	.....	1,027
North Central Division	1890	19,859,736	645,127,344	1,176,117	17,951,629	22,581,556	321,316,830
	1880	8,843,653	270,166,435	673,552	9,538,706	23,930,197	329,550,755
	1870	.....	159 804,821	.....	6,472.904	.....	194,934,540
	1860	.....	62,953,218	.....	4,105,858	.....	95,005,130
	1850	.....	42,328,731	.....	839,507	.....	43,842,038
Ohio	1890	1,215,355	40,136,732	59,643	1,007,156	2,269 585	35,559,208
	1880	910,388	28,664 505	29,499	389,221	2,556,134	46,014.869
	1870	.....	25,347,549	.....	846,890	.....	27,882,159
	1860	.....	15,409,234	.....	683,686	.....	15,119,047

TABLE No. 4—ACREAGE AND PRODUCTION OF CEREALS—*Continued.*

STATES AND TERRITORIES	Year.	OATS.		RYE.		WHEAT.	
		Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels.
North Central Division—Con.....							
Ohio—Continued.....	1850	.....	13,472,742	.....	425,918	.....	14,487,351
Indiana.....	1890	1,102,479	31,491,661	62,890	877,532	2,570,017	37,318,798
	1880	623,531	15,599,518	25,400	303,105	2,619,695	47,284,853
	1870	.....	8,590,409	.....	457,468	.....	27,747,222
	1860	.....	5,317,831	.....	463,495	.....	16,848,267
	1850	.....	5,655,014	.....	78,792	.....	6,214,458
Illinois.....	1890	3,870,702	137,624,828	165,598	2,628,046	2,240,932	37,389,444
	1880	1,959,889	63,189,200	192,138	3,121,785	3,218,542	51,110,502
	1870	.....	42,780,851	.....	2,456,578	.....	30,128,405
	1860	.....	15,220,029	.....	951,281	.....	23,837,023
	1850	.....	10,087,241	.....	83,364	.....	9,414,575
Michigan.....	1890	1,085,759	36 961,193	140,754	2,101,713	1,501,225	24,771,171
	1880	536,187	18,190,793	22,815	294,918	1,822,749	35,532,543
	1870	.....	8,954,466	.....	144,508	.....	16,265,773
	1860	.....	4,036,980	.....	514,129	.....	8,336,368
	1850	.....	2,866,056	.....	105,871	.....	4,925,889
Wisconsin.....	1890	1,627,151	60,739,052	275,058	4,250,582	744,080	11,698,922
	1880	955,597	32.905,320	169,692	2,298.513	1,948,160	24 884,689
	1870	.....	20.180,016	.....	1,325,294	.....	25,606,344
	1860	.....	11,059,260	.....	888,544	.....	15,657,458
	1850	.....	3,414,672	.....	81,253	.....	4,286,131
Minnesota.....	1890	1,579,258	49,958,791	62,869	1,252,663	3,372,627	52,300.247
	1880	617,469	23,382,158	13,614	215,245	3,044,670	34,601,030

	1870	.....	10,678 261	.....	78,088	.....	18,866,073
	1860	.....	2,176,002	.....	121,411	.....	2,186,993
	1850	.....	30,582	.....	125	.....	1,401
Iowa	1890	3,752,141	146,679,289	93,707	1,445,283	585,548	8,249,786
	1880	1,507,577	50,610,591	102,607	1,518,605	3,049,289	31.154,205
	1870	.....	21,005,142	.....	505,807	.....	29,435,692
	1860	.....	5,887,645	.....	183,022	.....	8,449,403
	1850	.....	1,524,345	.....	19,916	.....	1,530,581
Missouri	1890	1,676,706	39,820,149	24,283	308,807	1,946,785	30,113,821
	1880	968,473	20,670,958	46,484	535,426	2,074,394	24,966,627
	1870	.....	16,578,313	.....	559,532	.....	14,315,926
	1860	.....	3.680,870	.....	293,262	.....	4,227,586
	1850	.....	5,278,079	.....	44,268	.....	2,981,652
North Dakota	1890	402,855	5,773,129	1,568	12,195	2,709,421	26,403,365
South Dakota	1890	580,289	7,469,846	9,229	65,183	2,259,846	16,541,138
Dakota Territory	1880	78,226	2,217,132	2,385	24,359	265,298	2,830,289
	1870	.....	114,327	.....	.....	.....	170,662
	1860	....	2,540	.....	700	.....	945
Nebraska	1890	1,503,515	43,843,640	81,372	1,085,083	798,855	10,571,059
	1880	250,457	6,555,875	34,297	424 348	1,469,865	13,847,007
	1870	.....	1,477,562	.....	13,532	.....	2,125,086
	1860	.....	74,502	.....	2,495	.....	147,867
Kansas	1890	1,463,526	44,629,034	199,146	2,917,386	1,582,635	30,399,871
	1880	435,859	8,180,385	34,621	413,181	1,861,402	17,324,141
	1870	.....	4,097,925	.....	85,207	.....	2,391,198
	1860	.....	88,325	.....	3,833	.....	194,173
South Central Division	1890	2,560,328	37,859,361	82,493	686,607	2,313,200	24,502,856
	1880	1,826,491	21,645 208	135,297	906,804	3,244,321	24,278,499
	1870	.....	13,628.092	.....	1,423,247	.....	14,413,921
	1860	.....	9,338,791	.....	1,651,197	.....	17,128,600
	1850	.....	21,318,218	.....	542,707	.....	4,436,027

TABLE No. 4—ACREAGE AND PRODUCTION OF CEREALS—*Continued.*

STATES AND TERRITORIES.	Year.	OATS.		RYE.		WHEAT.	
		Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels.
South Central Division—Con.....							
Kentucky.....	1890	645,316	8,775,814	45,546	423,847	898,694	10,707,462
	1880	403,416	4,580,738	89,417	668,050	1,160,108	11,356,113
	1870	.....	6,620,103	.....	1,108,933	.....	5,728,704
	1860	.....	4,617,029	.....	1,055,260	.....	7,394,809
	1850	.....	8,201,311	.....	415,073	.....	2,142,822
Tennessee	1890	588,138	7.355,100	26,443	165,621	877,361	8,300,789
	1880	468,566	4,722,190	32,493	156,419	1,196,563	7,331,353
	1870	.....	4 513,315	.....	223,335	.....	6,188,916
	1860	.....	2.267,814	.....	257,989	.....	5,459,268
	1850	.....	7,703,086	.....	89,137	.....	1,619,386
Alabama.....	1890	344.788	3,230,455	2,190	14,618	39,641	208,591
	1880	324,628	3,039,639	5,764	28,402	264,971	1,529,657
	1870	.....	770,866	.....	18,977	.....	1,055,068
	1860	.....	682,179	.....	72,457	.....	1,218,444
	1850	.....	2,965,696	.....	17,261	.....	294,044
Mississippi.....	1890	133,361	1,362.290	406	3,544	2,519	16,570
	1880	198,497	1,959,620	806	5,134	43,524	218,890
	1870	.....	414,586	.....	14,852	.....	274,479
	1860	.....	221,235	.....	39,474	.....	587,925
	1850	.....	1,503,288	.....	9,606	.....	137,990
Louisiana.....	1890	27,023	297,271	73	374	41	257
	1880	26,861	229,840	201	1,013	1,501	5,034
	1870	.....	17,782	.....	984	.....	9,906
	1860	.....	89,377	.....	36,065	.....	32,208

	1850	.....	89,637	.....	475	.....	417
Texas	1890	528,924	12,581,360	5,255	62 370	352,477	4,283,344
	1880	238,010	4,893,359	3,326	25,399	373,570	2,567,737
	1870	.....	762,663	.....	28,521	.....	415,112
	1860	.....	985,889	.....	111,860	.....	1,478,345
	1850	.....	199,017	.....	3,108	.....	41,729
Oklahoma	1890	4,446	76,194	110	1,052	2,003	30,175
Arkansas	1890	288,332	4,180,877	2,470	15,181	140,464	955,668
	1880	166,513	2,219,822	3,290	22,387	204,084	1,269,715
	1870	.....	528,777	.....	27,645	.....	741,736
	1860	.....	475,268	.....	78,092	.....	957,601
	1850	.....	656,183	.....	8,047	.....	199,639
Western Division	1890	555,748	15,635,752	45,424	428,922	4,096,714	63,106,634
	1880	335,994	10,087,223	24,479	236,269	2,600,197	42,940,569
	1870	.....	4,814,362	.....	44 414	.....	20,917,012
	1860	.....	2,134,552	.....	57,140	.....	7,664,297
	1850	.....	72,119	.....	316	.....	533,489
Montana	1890	52,768	1 535,615	14	188	18,696	457,607
	1880	24,691	900,915	15	430	17,665	469,688
	1870	.....	149,367	.....	1,141	.....	181,184
Wyoming	1890	14,607	388,505	141	2,055	4,584	74,450
	1880	822	22,512	6	78	241	4,674
	1870	.....	100	.....	.....	.....	.....
Colorado	1890	87,959	2,514,480	4,615	54,158	126,999	2,845,439
	1880	23,023	640,900	1,294	19 465	64,693	1,425,014
	1870	.....	332,940	.....	5,235	.....	258,474
New Mexico	1890	9,314	193,832	69	810	21 853	343,484
	1880	9,237	156,527	17	240	51,230	706,641
	1870	.....	67,660	.....	42	.....	352,822
	1860	.....	7,246	.....	1,300	.....	434,309
	1850	.....	5	.....	.....	.....	196,516

TABLE No. 4—ACREAGE AND PRODUCTION OF CEREALS—*Continued.*

STATES AND TERRITORIES.	Year.	OATS.		RYE.		WHEAT.	
		Acres.	Bushels.	Acres.	Bushels.	Acres.	Bushels.
Western Division—Continued							
Arizona	1890	1,472	33,996	20	207	6,225	100,328
	1880	29	564	.....	.....	9,026	136,427
	1870	.....	25	.....	.....	.....	27,052
Utah.....	1890	22,747	597,947	3,389	33,928	84,505	1,515,465
	1880	19,525	418,082	1,153	9,605	72,542	1,169,199
	1870	.....	65,650	.....	1,312	.....	558,473
	1860	.....	63,211	.....	754	.....	384,892
	1850	.....	10,900	.....	210	.....	107,702
Nevada.....	1890	3,490	99,126	54	502	3,631	81,486
	1880	5,937	186,860	.....	.....	3,674	69,298
	1870	.....	55,916	.....	310	.....	228,866
	1860	.....	1,082	.....	98	.....	3,631
Idaho	1890	21,997	587,407	1,092	10,809	63,704	1,176,878
	1880	13,197	462,236	354	4,341	22,066	540,589
	1870	.....	100,119	.....	1,756	.....	75,650
Washington	1890	65,089	2,273,182	1,763	19,188	372,658	6,345,426
	1880	37,962	1,571,706	518	7,124	81,554	1,921,322
	1870	.....	255,169	.....	4,453	.....	217,043
	1860	.....	134,334	....	144	.....	86,219
Oregon.....	1890	218,736	5,948 494	6,845	63,206	553,052	9,296,734
	1880	151,624	4,385,650	841	13,305	445,077	7,480,010
	1870	.....	2,029,909	.....	3,890	.....	2,340,746

	1860	.....	885,673	.....	2,704	.....	826,776
	1850	.....	61 214	.....	106	.....	211,943
California	1890	57,569	1,463,068	27,413	243,871	2,840,807	40,869 237
	1880	49,917	1,341,271	20,281	181,081	1,832,429	29,017,707
	1870	....	1,757,507	....	26,275	....	16,676,702
	1860	....	1,043,006	....	52,140	....	5,928,470
	1850	....	....	....	....	....	17,328

STATISTICS OF WEALTH, DEBT, AND TAXATION.

TRUE VALUATION.

The total true valuation of the real and personal property in the country at the close of the census period 1890 amounted to $65,037,091,197, of which amount $39,544,544,333 represents the value of real estate and improvements thereon and $25,492,546,864 that of personal property, including railroads, mines and quarries. At the same time the total assessed value of real and personal property taxed was $25,473,173,418, of which amount $18,956,556,675 represented real estate and improvements thereon and $6,516,616,743 personal property.

The true valuation is what would be deemed a fair selling price for the property, and is thus termed in distinction from the assessed valuation, which is a value placed upon certain taxable property for taxation purposes only.

The value of visible and tangible property only is included in the figures of true valuation herewith published, and the amounts are generally distributed among the respective States where the property is located without reference to ownership.

The true valuation of real estate includes all improvements thereon, and is based on reports of local officers or of private individuals believed to be familiar with real estate values in their respective localities, but does not include the value of railroads or mines and quarries. In every case a statement showing such true valuation of the state by counties has been submitted to the Governor of the State for his approval or correction, and all changes suggested by him have been made.

The true value of personal property in most cases is that placed upon it by its owners and given to the enumerators and other census officials, as required by law.

The value given to railroads and equipments, however, represents the cost of construction and equipment of the roads in question, and is distributed among the several states according to mileage.

The gold and silver coin and bullion is the amount reported by the Director of the Mint as in the country at the close of the fiscal year 1890.

The value of merchandise in stock and of cattle not on farms is based upon the value of such property assessed for taxation; that of furniture and personal belongings upon their insured values as shown by an examination of 8,000 policies upon contents of houses not in large cities; that of libraries and other exempt property upon returns received from nearly every municipality in the country; that of foreign goods in bond upon the report of the Treasury Department, and that of agricultural products on hand upon the report of the Secretary of Agriculture for 1890. These values are included as miscellaneous, and represent, it is believed, substantially all the wealth of the country not elsewhere classified.

The true and assessed valuations for 1890 compared with like valuations of the previous decade are as follows:

YEARS.	TRUE VALUATION OF ALL REAL AND PERSONAL PROPERTY.			ASSESSED VALUATION OF REAL AND PERSONAL PROPERTY TAXED.		
	Total.	Per capita.	Increase per cent.	Total.	Per capita.	Increase per cent.
1890....	$65,037,091,197	$1,036	49.02	$25,473,173,418	$ 407	48.62
1880....	43,642,000,000	870	.....	17,132,903,495	342	.....

The assessed valuation of 1880 has been somewhat increased above the amount reported by the Tenth Census by the inclusion of railroad values omitted, but on which ad valorem taxes were levied.

The total true value in 1890 includes $941,031,378, value of vacant national lands and Indian reservations not embraced in the figures for 1880. Omitting this amount, and it will be noticed that the increase per cent. of true valuation was substantially the same for the decade as the assessed valuation. The true valuations for previous census periods will be fully considered in the final volume.

ASSESSED VALUATION AND AD VALOREM TAXATION.

The valuation given to real estate and personal property throughout the country for purposes of taxation is termed "Assessed valuation." It covers but a portion of the property in existence, a considerable amount of both real and personal being specially exempt from taxation by law, and of the latter class it is known that an additional portion escapes taxation by fraudulent evasion.

The term real estate, as generally used in the several States, and consequently in these tables, includes lands and all things pertaining thereto which would ordinarily pass to the vendee by the

transfer of a fee simple title, but in case of mining and gas lands, especially where taxation is levied exclusively upon the output, the stock, or the gross receipts of the company owning the property, the real estate is assessed for taxation purposes without regard to the ores or gas embraced within its limits.

The kinds of personal property assessed for taxation are defined by law in the several States. In some cases a value for taxation is given to polls and occupations by the States, but in these tables such values have been omitted whenever practicable.

The taxation reported is for State, county, local and school purposes, and includes only the taxes levied upon real and personal property. Poll taxes, dog taxes and taxes payable in labor are not included, as far as known to this office.

PUBLIC INDEBTEDNESS.

The debt of the United States embraces in the aggregate the National, State, county or parish, municipal, and school district debts of the country; also the debt of irrigation districts in California and of fire districts in Massachusetts. The term municipal, as used, embraces cities, towns, villages, townships, boroughs and precincts, being all the subdivisions of the county or parish, except the school districts. The aggregate stated is believed to represent the indebtedness of every political division of the United States except that of the poor districts of Pennsylvania, of which no satisfactory information seems obtainable at present.

RECEIPTS AND EXPENDITURES OF THE NATIONAL, STATE, AND LOCAL GOVERNMENTS OF THE UNITED STATES.

The total revenues collected by the National, State, and local governments during the census year 1890 amounted to $1,040,473,013, distributed by divisions as follows:

National government, including postal revenues	$461,154,680
States, Territories and District of Columbia	116,157,640
Counties, partly estimated	133,525,493
Municipalities, partly estimated	329,635,200

The total expenditure of the National, State, and local governments on all accounts in 1890 was $915,954,055, distributed as follows, expenditures for schools being separately reported:

National government, including postal service	$352,218,614
States, Territories and Dist. of Columbia, except for pub. schools.	77,105,911
Counties, except for public schools, partly estimated	114,575,401
Municipalities, except for public schools, partly estimated	232,988,592
Public schools	139,065,537

The detailed sources of these receipts and objects of expenditures are set forth in the accompanying tables.

The figures have been compiled from published or special reports received at this office. Such reports show complete figures for the National, and State governments, for the postal service and for schools; also for 1,318 counties having 60 per cent. of the entire population, and for the municipalities having 50,000 or more population in 1890, except Denver, Col., Camden, N. J., and Lincoln, Neb., and for nearly all municipalities having a population of 4,000 or less than 50,000 in 1890.

Estimates based upon the known tax levy and the population are made from the delinquent counties and cities and for the municipalities having less than 4,000 population.

The expenditures actually reported in detail, however, embrace 93 per cent. of the total involved, leaving less than 7 per cent. based upon estimates, and this portion has been subjected to such tests as to leave little doubt as to its substantial accuracy.

In the final grouping of the transactions the receipts and expenditures of the National government on account of the District of Columbia are omitted, being embraced in the report of the District, and as the full report of transactions in the postal service are embraced in the table, the item of deficiency on account of such service also dissapears as a separate item in the aggregation.

Exclusive of postal expenditures reimbursed by postal receipts, the cost per capita of maintaining the National, State and local governments, including schools, in 1890, was $13.65.

In some cases the State reports show the receipts and expenditures only biennially, grouping two years' transactions. In such cases one half of the amount for the two years nearest 1890 is taken as for that year, and where, though the report shows annual transactions, the legislature holds a session only biennially, one-half of the expenses of the session held nearest to 1890 is also taken as the legislative expense for that year.

No item of receipts or expenditures on account of loans or investments of security funds, or any balance of cash on hand is published, but such items will appear in the details of the final volume. It will be noticed that in the aggregate of all transactions, National, State, and local, the receipts exceed the expenditures in the sum of $124,518,958, of which amount the excess in the transactions of the National Government, including postal service, amounted to $108,936,066, leaving $15,582,892 as a surplus arising from the financial transactions of the State and local governments during the year 1890.

The receipts and expenditures of the National Government, including those of the postal service in detail, and the expenditures of the local governments for public schools for 1890, are compared with like items for 1880; but no figures showing State, county, or municipal expenditures for any other period have been published by this office, and no comparison can therefore be made.

In compiling the expenditures of municipalities all municipal accounts are included, and the amount of interest paid on bonds issued on account of waterworks or other undertakings is charged in each case as part of the expenses of the enterprise of which only the net results are reported. The amount of interest paid on bonds issued by any city and held in its sinking fund is treated only as a transfer between accounts and the interest payment correspondingly diminished.

TABLE No. 1.

TRUE VALUATION OF REAL AND PERSONAL PROPERTY IN THE UNITED STATES, (ALASKA EXCLUDED) BY STATES AND TERRITORIES.—1890.

STATES AND TERRITORIES.	Total.	Real Estate With Improvements Thereon.	Live Stock on Farms, Farm Implements and Machinery.	Mines and Quarries, Including Product on Hand.
The United States	$ 65,037,091,197	$ 39,544,544,333	$ 2,703,015,040	$ 1,291,291,579
North Atlantic Division	21,435,491,864	13,905,274,364	430,770,756	424,071,494
Maine	489,134,128	254,069,559	23,779,553	5,806,940
New Hampshire	325,128,740	176,131,000	14,044,975	1,188,089
Vermont	265,567,323	138,378,194	21,377,880	11,841,193
Massachusetts	2,803,645,447	1,898,637,794	20,139,118	3,363,995
Rhode Island	504,162,352	334,740,002	3,306,000	816,055
Connecticut	835,120,219	543,421,891	13,050,113	3,108,787
New York	8,576,701,991	5,817,704,667	171,183,430	30,513,948
New Jersey	1,445,285,114	961,013,972	23,190,074	5,543,997
Pennsylvania	6,190,746,550	3,781,177,285	140,699,613	361,888,490
South Atlantic Division	5,132,980,666	2,923,418,932	198,075,819	61,415,252
Delaware	175,678,795	105,720,519	6,034,380	282,082
Maryland	1,085,473,048	745,307,917	25,734,410	20,770,825
District of Columbia	343,596,733	286,563,006	208,880	.....
Virginia	862,318,070	470,642,553	39,997,969	6,513,817
West Virginia	438,954,881	248,727,477	27,081,030	14,457,319
North Carolina	584,148,999	278,975,226	32,730,490	4,293,904
South Carolina	400,911,303	176,528,452	20,744,672	7,297,518
Georgia	852,409,449	415,339,384	37,242,968	7,613,745
Florida	389,489,388	195,614,398	8,301,020	186,042
North Central Division	25,255,915,549	15,125,481,180	1,447,471,577	220,544,444

Ohio	3,951,382,384	2,530,255,018	145,657,036	53,637,259
Indiana	2,095,176,626	1,288,163,737	114,533,677	15,102,469
Illinois	5,066,751,719	3,294,042,440	214,888,600	22,044,593
Michigan	2,095,016,272	1,149,290,454	91,747,585	77,608,518
Wisconsin	1,833,308,523	1,098,350,591	82,951,387	8,388,551
Minnesota	1,691,851,927	1,034,163,155	74,642,156	10,390,329
Iowa	2,287,348,333	1,261,701,010	243,101,557	7,676,126
Missouri	2,397,902,945	1,438,731,201	160,531,892	12,480,754
North Dakota	337,006,506	175,917,099	25,435,474	66,580
South Dakota	425,141,299	206,923,201	37,603,221	6,822,622
Nebraska	1,275,685,514	708,413,098	109,440,897	2,089,177
Kansas	1,799,343,501	939,530,176	146,938,095	4,237,466
South Central Division	6,401,281,019	3,538,805,433	409,372,600	40,916,904
Kentucky	1,172,232,313	711,793,385	81,830,906	9,919,417
Tennessee	887,956,143	483,761,510	70,191,110	7,344,009
Alabama	622,773,504	271,363,944	35,288,375	18,277,597
Mississippi	454,242,688	208,393,024	39,905,300	5,000
Louisiana	495,301,597	271,961,846	25,065,735	.....
Texas	2,105,576,766	1,220,417,771	117,006,044	1,255,970
Oklahoma	48,285,124	34,037,571	3,639,850	.....
Arkansas	455,147,422	233,855,131	36,445,280	2,622,902
Indian Territory	159,765,462	103,221,251	.....	1,492,009
Western division	6,811,422,099	4,051,564,424	217,324,288	544,343,485
Montana	453,135,209	207,770,797	22,976,607	81,426,388
Wyoming	169,773,710	92,493,357	15,870,581	5,020,496
Colorado	1,145,712,267	603,326,165	25,322,860	161,471,917
New Mexico	231,459,897	113,729,183	7,538,320	21,692,388
Arizona	188,880,976	95,644,280	3,454,240	26,090,504
Utah	349,411,234	183,117,253	7,978,490	67,432,123
Nevada	180,323,668	92,222,975	6,339,300	27,130,047
Idaho	207,896,591	95,606,807	8,425,950	46,967,265
Washington	760,698,726	516,365,149	17,263,310	7,622,783
Oregon	590,396,194	380,174,803	27,205,600	16,836,577
California	2,533,733,627	1,671,113,655	74,948,940	82,652,997

TABLE No. 1.—*Continued.*

STATES AND TERRITORIES.	Gold and Silver, Coin and Bullion.	Machinery of Mills and Product on Hand, Raw and Manufactured.	Railroads and Equipments, Including Street Railroads.	Telegraphs, Telephones, Shipping and Canals.	Miscellaneous.
The United States	$ 1,158,774,948	$ 3,058,593,441	$ 8,685,407,323	$ 701,755,712	$ 7,893,708,821
North Atlantic Division	390,431,535	1,739,752,192	1,445,910,383	351,283,023	2,747,998,117
Maine	10,655,666	27,400,727	69,524,389	43,175,046	54,722,248
New Hampshire	6,059,688	30,964,366	58,782,551	2,143,867	35,814,204
Vermont	5,380,723	8,223,289	49,349,395	1,716,604	29,300,045
Massachusetts	48,476,225	309,098,895	110,793,408	51,658,136	361,477,876
Rhode Island	5,996,129	74,846,062	13,433,703	5,163,956	65,860,445
Connecticut	13,456,492	86,624,237	54 550,504	14,753,310	106,154,885
New York	176,941,588	594,476,039	534,671,937	129,098,710	1,122,111,672
New Jersey	23,764,541	121,173,974	99,357,820	16,225,600	195,015,136
Pennsylvania	99,700,483	486,944,603	455,446,676	87,347,794	777,541,606
South Atlantic Division	140,731,530	180,991,025	943,510,336	76,132,083	608,705,689
Delaware	2,824,336	15,359,670	16,599,418	6,580,068	22,278,322
Maryland	19,335,876	58,727,020	66,733,915	18,551,391	130,311,694
District of Columbia	5,266,300	13,958,068	4,489,953	2,023,844	31,086,682
Virginia	25,389,094	28,162,069	169,867,928	11,960,333	109,784,307
West Virginia	11,776,054	11,278,034	65,609,822	3,539,626	56,485,519
North Carolina	24,358,230	12,044,428	152,160,420	8,132,644	71,453,657
South Carolina	17,502,403	11,502,673	114,093,428	5,792 545	47,449,612
Georgia	28,298 688	26,196,591	227,397,970	11,671,918	98,648,185
Florida	5,980,549	3,762,472	126,557,482	7,879,714	41,207,711
North Central Division	387,040,555	873,977,334	3,937,237,117	160,425,950	3,103,737,392
Ohio	60,430,088	182,640,892	424,107,906	35,698,555	518,955,630

Indiana	35,640,877	54,920,942	310,172,144	9,117,166	267,525,614
Illinois	77,890,594	245,552,366	521,464,517	23,344,205	667,524,404
Michigan	34,418,789	86,490,821	375,484,286	38,723,391	241,252,428
Wisconsin	27,934,449	81,874,031	294,269,054	14,738,945	224,801,515
Minnesota	23,036,530	55,655,545	281,641,105	5,574,586	206,748,521
Iowa	30,981,325	29,938,530	442,694,783	8,218,284	263,036,718
Missouri	46,436,377	100,566,607	322,668,487	12,964,186	303,523,441
North Dakota	3,040,965	943,450	102,937,257	730,876	27,934,805
South Dakota	5,263,004	1,329,023	127,245,237	1,315,232	38,639,759
Nebraska	18,961,494	14,946,683	272,129,695	4,292,140	145,412,330
Kansas	23,906,063	19,118,444	462,422,646	5,708,384	198,382,227
South Central Division	170,393,078	138,558,243	1,288,746,449	53,994,196	760,494,116
Kentucky	29,192,033	36,026,069	142,262,792	8,470,490	152,737,221
Tennessee	27,372,564	25,681,603	152,683,677	7,874,072	113,047,598
Alabama	23,203 293	23,124,036	174,557,142	8,236,253	68,722,864
Mississippi	19,365,860	5,535,904	119,889,776	6,499,749	54,648,075
Louisiana	17,785,914	19,244,378	91,673,064	8,319,098	61,251,562
Texas	35,532,610	22,047,604	446,587,638	9 834,482	252,894,647
Oklahoma	937,774	51,114	8,629,471	247,336	742,008
Arkansas	16,975,521	6,732 986	97,552,745	4,512,716	56,450,141
Indian Territory	27,509	114 549	54,910,144	.....	.....
Western division	70,178,250	125,314,647	1,070,003,038	59,920,460	672,773,507
Montana	3,111,659	1,197,883	112,602,661	528,636	23,520,488
Wyoming	1,216,666	455.748	48,466,975	242,820	6,007,067
Colorado	8,606,736	14,507,433	222,220,424	1,648,792	108,598,940
New Mexico	2,524,943	471,948	75,469,333	614,372	9,419,410
Arizona	1,013,002	282,930	56,348,389	238,480	5,809,151
Utah	3,981,485	2,793.974	55,974,079	831,620	27,302,210
Nevada	1,054,488	296.977	47,513,454	183,044	5,583,383
Idaho	1 410,142	389.892	48,078,479	337,540	6,680,516
Washington	7,576,766	11,713,975	92,724,845	9,947,920	97,483,978
Oregon	7,007,914	12,984,629	74,978,844	6,450,099	64,757,728
California	32,674,449	80,219,258	235,616,555	38,897,137	317,610,636

TABLE No. 2.

TRUE VALUATION OF REAL AND PERSONAL PROPERTY IN THE UNITED STATES (ALASKA EXCLUDED), TOTAL AND PER CAPITA, BY STATES AND TERRITORIES—1880 AND 1890.

STATES AND TERRITORIES.	TRUE VALUATION OF REAL AND PERSONAL PROPERTY.			
	Total.		Per Capita.	
	1890.	1880.	1890.	1880.
The United States.	$ 65,037,091,197	$ 43,642,000,000	$1,036	$ 870
North Atlantic Division.	21,435,491,864	17,533,000,000	1,232	1,209
Maine	489,134,128	511,000,000	740	787
New Hampshire	325,128,740	363,000,000	863	1,046
Vermont	265,567,323	302,000,000	799	909
Massachusetts	2,803,645,447	2,623,000,000	1,252	1,471
Rhode Island	504,162,352	400,000,000	1,459	1,447
Connecticut	835,120,219	779,000,000	1,119	1,251
New York	8,576,701,991	6,308,000,000	1,430	1,241
New Jersey	1,445,285,114	1,305 000,000	1,000	1,154
Pennsylvania	6,190,746,550	4,942,000,000	1,177	1,154
South Atlantic Division.	5,132,980,666	3,759,000,000	579	495
Delaware	175,678,795	136,000,000	1,043	928
Maryland	1,085,473 048	837,000,000	1,041	895
District of Columbia	343,596,733	220,000,000	1,491	1,239
Virginia	862,318,070	707,000,000	521	467
West Virginia	438,954,881	350,000,000	575	566
North Carolina	584,148,999	461,000,000	361	329
South Carolina	400,911,303	322,000,000	348	323
Georgia	852,409,449	606,000,000	464	393
Florida	389,489,388	120,000,000	995	445
North Central Division.	25,255,915,549	16,186,000,000	1,129	932
Ohio	3.951,382,384	3,238,000,000	1,076	1,012
Indiana	2,095.176,626	1,681,000,000	956	850
Illinois	5,066,751.719	3,210,000,000	1,324	1,043
Michigan	2,095,016,272	1,580,000,000	1,001	965
Wisconsin	1,833,308,523	1,139.000,000	1,087	866
Minnesota	1,691,851,927	792,000,000	1,300	1,014
Iowa	2.287,348,333	1,721,000,000	1,196	1,059
Missouri	2,397,902,945	1,562,000,000	895	720
North Dakota	337,006,506	a118,000,000	1.844	a873
South Dakota	425,141,299		1.293	
Nebraska	1,275,685,514	385,000,000	1,205	851
Kansas	1,799,343,501	760,000,000	1,261	763
South Central Div (b).	6,401,281,019	3,882,000,000	569	435
Kentucky	1,172.232,313	902,000,000	631	547
Tennessee	887,956,143	705,000,000	502	451

TABLE No. 2.—*Continued.*

STATES AND TERRITORIES.	TRUE VALUATION OF REAL AND PERSONAL PROPERTY.			
	Total.		Per Capita.	
	1890.	1880.	1890.	1880.
Alabama	$ 622,773,504	$ 428,000,000	$ 412	$ 339
Mississippi	454,242,688	354,000,000	352	313
Louisiana	495,301,597	382,000,000	443	406
Texas	2,105,576,766	825,000,000	942	518
Oklahoma	48,285,124	.....	781	.....
Arkansas	455,147,422	286,000,000	403	356
Indian Territory	159,765,462	.....	.....	.....
Western Division	6,811,422,099	2,282,000,000	2,250	1,291
Montana	453,135,209	40,000,000	3,429	1,022
Wyoming	169,773,710	54,000,000	2,797	2,596
Colorado	1,145,712,267	240,000,000	2,780	1,235
New Mexico	231,459,897	49,000,000	1,507	410
Arizona	188,880,976	41,000,000	3,168	1,014
Utah	349,411,234	114,000,000	1,681	792
Nevada	180,323,668	156,000,000	3,941	2,506
Idaho	207,896,591	29,000,000	2,464	890
Washington	760,698,726	62,000,000	2,177	825
Oregon	590,396,194	154,000,000	1,882	882
California	2,533,733,627	1,343,000,000	2,097	1,553

a Dakota territory.
b In computing these per capitas the true valuation of Indian Territory is excluded.

TABLE No. 3.

ASSESSED VALUATION OF REAL AND PERSONAL PROPERTY, AND TRUE VALUATION OF REAL ESTATE TAXED, WITH RATIO PER CENT. OF TOTAL ASSESSED TO TOTAL TRUE VALUATION (ALASKA, INDIAN TERRITORY, AND OKLAHOMA EXCLUDED), BY STATES AND TERRITORIES—1890.

STATES AND TERRITORIES.	ASSESSED VALUATION OF PROPERTY TAXED.			True Valuation of Real Estate Taxed.	Ratio of Total Assessed to Total True Valuation. (Per Cent.)
	Total.	Real Estate.	Personal Property.		
The United States	$ 25,473,173,418	$ 18,956,556,675	$ 6,516,616,743	$ 35,711,209,108	39.29
North Atlantic Division	10,908,667,585	8,601,385,328	2,307,282,257	12,695,897,886	50.89
Maine	309,129,101	233,946,082	75,183,019	233,946,082	63.20
New Hampshire	263,059,798	141,729,716	121,330,082	156,479,218	80.91
Vermont	162,098,513	112,895,125	49,203,388	126,554,907	61.04
Massachusetts	2,154,134,626	1,600,137,807	553,996,819	1,673,052,797	76.83
Rhode Island	321,764,503	243,081,296	78,683,207	308,571,866	63.82
Connecticut	358,913,956	261,451,666	97,462,290	485,998,944	42.98
New York	3,785,910,313	3,403,751,246	382,159,067	5,250,687,180	44.14
New Jersey	893,859,866	562,375,791	331,484,075	888,379,700	61.85
Pennsylvania	2,659,796,909	2,042,016,599	617,780,310	3,572,227,192	42.96
South Atlantic Division	2,262,380,713	1,528,133,435	734,247,278	2,512,053,245	44.08
Delaware	66,210,519	63,346,513	2,864,006	101,282,029	37.69
Maryland	529,494,777	411,900,246	117,594,531	589,015,067	48.78
District of Columbia	153,307,541	141,609,891	11,697,650	141,609,891	44.62
Virginia	415,249,107	272,311,276	142,937,831	449,562,737	48.15
West Virginia	186,964,770	121,202,365	65,762,405	286,659,954	42.59

North Carolina	235,300,674	142,068,932	93,231,742	260,191.465	40.28
South Carolina	168,262,669	90,042,723	78,219,946	168,179,119	41.97
Georgia	415,828,945	225,054,915	190,774,030	382 999,745	48.78
Florida	91,761,711	60,596 574	31,165,137	182,553,238	23.56
North Central Division	7,676,769,418	5,569,109,113	2,107,660,305	14,176,950,222	30.40
Ohio	1,778.138,477	1,232,305,312	545,833,165	2,374,439,191	45.00
Indiana	856,833,472	554,900,734	301,937,738	1,206,083,830	40.90
Illinois	809,682 926	587,442 289	222,240,637	3,108,040 960	15.98
Michigan	898,155,532	739 690,151	158,465,381	1,080,628,798	42.87
Wisconsin	577,066,252	464,590 340	112,475,912	1,022,794,776	31.48
Minnesota	588,820,213	496,558,366	92.261,847	955,633,047	34.80
Iowa	519,246.110	370,921,446	148,324,664	1.200 469,828	22.70
Missouri	887,975,928	599,859,331	288,116,597	1,356,866,163	37.03
North Dakota	88 203,054	65 181,187	23,021,867	128,710 884	26 17
South Dakota	140,154,930	101,378,719	38,776,211	173,470,318	32.97
Nebraska	184,770,305	115,181,167	69,589,138	663.527,050	14.48
Kansas	347,717,219	241,100,071	106,617,148	906,285,377	19.32
South Central Division	2,546,065,973	1,734,302,620	811,763,353	3,144,096,998	41.11
Kentucky	547,596,788	376,788,792	170,807,996	652,168,008	46.71
Tennessee	382 760,191	292,872,811	89,887,380	459,186,911	43.11
Alabama	258,979,575	154,706,484	104,273,091	252,833,299	41.58
Mississippi	166,772,279	117,004,402	49,767,877	195,864,374	36.71
Louisiana	234,320,780	159,619,875	74,700,905	239,142,588	47.31
Texas	780,898,605	523,893,098	257,005,507	1,130,341,854	37.09
Oklahoma	.....	.....	.....	.....	.....
Arkansas	174,737,755	109,417,158	65.320,597	214,559,964	38.39
Western Division	2,079,289,729	1,523,626,179	555,663 550	3,182,210,757	30.53
Montana	112.937,384	54,943,531	57,993,853	109,672,902	24.92
Wyoming	32,536,401	12,719,221	19,817,180	26,393,033	19.16
Colorado	220.554,064	155,383,090	65,170,974	518,262,818	19.25
New Mexico	43,227,686	15.371,084	27,856,602	37,881,469	18.68
Arizona	28,050,234	10,174,476	17,875,758	25,468,556	14.85
Utah	106,110,370	80,218,871	25,891,499	124,036,751	30.37

TABLE No. 3.—*Continued.*

STATES AND TERRITORIES.	ASSESSED VALUATION OF PROPERTY TAXED.			True Valuation of Real Estate Taxed.	Ratio of Total Assessed to Total True Valuation. (Per Cent.) ....
	Total.	Real Estate.	Personal Property.		
Nevada	$ 25,350,094	$ 8,544,341	$ 16,805,753	$ 25,171,257	14.06
Idaho	25,748,437	9,977,463	15,770,974	28,339,482	12.39
Washington	217,612,897	177,204,671	40,408,226	466,456,488	28.61
Oregon	166,025,731	107,640,259	58,385,472	304,962,621	28.12
California	1,101,136,431	891,449,172	209,687,259	1,515,565,380	43.46

a Dakota Territory.

TABLE No. 4.

AD VALOREM TAXATION IN THE UNITED STATES, TOTAL AND PER CAPITA, THE RATE PER $100 OF ASSESSED VALUATION, AND THE RATE PER $100 OF TRUE VALUATION (ALASKA, INDIAN TERRITORY AND OKLAHOMA EXCLUDED), BY STATES AND TERRITORIES—1880 AND 1890.

STATES AND TERRITORIES.	AD VALOREM TAXATION.				Rate Per $100 of Assessed Valuation.		Rate per $100 of True Valuation.	
	Total.		Per Capita.					
	1890.	1880.	1890.	1880.	1890.	1880.	1890.	1880.
The United States	$ 471,365,140	$ 313.921,474	$ 7.53	$ 6.26	$ 1.85	$ 1 83	$ 0.73	$ 0.72
North Atlantic Division	179,072,262	136,622.143	10.29	9.42	1.64	1.77	0.84	0.78
Maine	4,922,858	5 182,135	7.45	7.99	1.59	2 20	1.01	1 01
New Hampshire	4,063,640	3.179.192	10.79	9.16	1 54	1.55	1.25	0.88
Vermont	2,105 395	1,745,111	6.33	5.25	1.30	2 01	0 79	0 58
Massachusetts	31,503,666	24.326,877	14.07	13.64	1 46	1 54	1.12	0.93
Rhode Island	3,797.417	2,692,715	10.99	9.74	1.18	1 07	0.75	0.67
Connecticut	6,112.197	5,365,739	8.19	8.62	1.70	1 64	0.73	0 69
New York	75,126.502	56,392,975	12.53	11.09	1.98	2.13	0.88	0 89
New Jersey	14 103,525	8,958 065	9.76	7.92	1.58	1 28	0 98	0.69
Pennsylvania	37,337,062	28,779 334	7.10	6.72	1.40	1.71	0.60	0.58
South Atlantic Division	32 687,813	21,552,644	3.69	2.84	1.44	1.27	0.64	0.57
Delaware	'922 179	604.257	5.47	4.12	1.39	1 01	0.52	0.44
Maryland	8.173,075	5.437,462	7.84	5.82	1.54	1.09	0 75	0.65
District of Columbia	2,280 110	1,469,254	9.90	8.27	1.49	1.48	0.66	0.67
Virginia	5 230.614	4,693,486	3.16	3.10	1.26	1.47	0 61	0.66
West Virginia	3.253,900	1,993,475	4.27	3.22	1.74	1.36	0 74	0 57
North Carolina	2,394,458	1,916,132	1.48	1.37	1.02	1.23	0.41	0 42

South Carolina	2,745,048	1,839,983	2.38	1.85	1.63	1 38	0.68	0 57
Georgia	5,711.990	3,013,777	3.11	1.95	1 37	1 20	0.67	0.50
Florida	1,976,439	584,818	5.05	2.17	2.15	1.89	0.51	0 49
North Central Division	181,699,222	113,992 172	8.13	6.56	2.37	2.09	0.72	0.70
Ohio	33,889,417	25,756 658	9.23	8.05	1 91	1.68	0.86	0.80
Indiana	15,584,054	11,943,630	7.11	6.04	1.82	1.64	0 74	0.71
Illinois	33,090,429	24,586,018	8.65	7.99	4.09	3 13	0 65	0.77
Michigan	14,477,767	8,627,949	6.91	5.27	1.61	1.67	0 69	0.55
Wisconsin	13,191,899	7,588,325	7.82	5.77	2.29	1.87	0.72	0.67
Minnesota	12,707,428	4,346,300	9.76	5.57	2 16	1.68	0.75	0.55
Iowa	15,175,432	11,061,605	7.94	6.81	2.92	2.77	0 66	0.64
Missouri	16,447,206	11,831,491	6.14	5.46	1.85	2 11	0.69	0.76
North Dakota	2,427,563	} *a* 478,066	} 13.29	} *a*3.54	} 2.75	} *a*2.35	} 0.72	} *a*0.40
South Dakota	3,626,313		} 11.03		} 2 59		} 0.85	
Nebraska	8,325,566	2,792,480	7.86	6.17	4 51	3.08	0 65	0.73
Kansas	12,756,148	4,979,650	8:94	5.00	3 67	3.10	0.71	0.62
South Central Division	36,522,622	22,790,152	3.35	2.56	1.43	1.63	0.59	0.59
Kentucky	7,379,326	5 201,017	3.97	3.15	1 35	1.40	0.63	0.58
Tennessee	5.636 772	2,515,567	3.19	1.63	1.47	1.10	0.63	0.36
Alabama	2,968 352	2,061 978	1.96	1.63	1.15	1 68	0.48	0.48
Mississippi	2,803,337	2 217,138	2.17	1.96	1.68	2,00	0.62	0.63
Louisiana	5,103,675	4,386.646	4.56	4.67	2 18	2.74	1.03	1 15
Texas	9,817,369	4,568,716	4.39	2.87	1.26	1.43	0.47	0 55
Oklahoma	.....	.....	.....	.....	.....	.....	.....	.....
Arkansas	2,813,791	1,839,090	2.49	2.29	1.61	2.13	0.62	0 64
Western Division	41,383,221	18,964,363	13.67	10.73	1 99	2.23	0 61	0.83
Montana	2,347,370	383,947	17.76	9 80	2.08	2.06	0.52	0.96
Wyoming	784,333	230.228	12.92	11.07	2 41	1 69	0.46	0.43
Colorado	6,419,271	2,152 008	15.57	11.07	2 91	2.89	0.56	0.90
New Mexico	1,043,316	164,100	6.79	1.37	2 41	1 12	0 45	0.33
Arizona	838,379	293,036	14.06	7.25	2 99	3.16	0 44	0.71
Utah	1,601,504	435,238	7.70	3.02	1.51	1 76	0.46	0.38

TABLE No. 4.—*Continued.*

STATES AND TERRITORIES.	AD VALOREM TAXATION.				Rate Per $100 of Assessed Valuation.		Rate Per $100 of True Valuation.	
	Total.		Per Capita.					
	1890.	1880.	1890.	1880.	1890.	1880.	1890.	1880.
Nevada	$ 735,910	$ 871,673	$ 16.08	$ 14.00	$ 2.90	$ 2.98	$ 0.41	$ 0.56
Idaho	761,561	186,769	9.02	5.73	2.96	2.90	0.37	0.64
Washington	5,209,714	505,417	14.91	6.73	2.39	2.12	0.68	0.82
Oregon	2,887,013	1,113,942	9.20	6.37	1.74	2.12	0.49	0.72
California	18,754,850	12,628,005	15.52	14.60	1.70	2.16	0.74	0.94

TABLE No. 5.

VALUATION OF REAL AND PERSONAL PROPERTY IN THE UNITED STATES, TOTAL AND PER CAPITA, AS ASSESSED FOR TAXATION (ALASKA, INDIAN TERRITORY, AND OKLAHOMA EXCLUDED), BY STATES AND TERRITORIES.—1880 AND 1890.

STATES AND TERRITORIES.	ASSESSED VALUATION.			
	Total.		Per Capita.	
	1890.	1880	1890.	1880.
The United States.	$25,473,173,418	$ 17,139,903,495	$407.18	$ 341.73
North Atlantic Div....	10,908,667,585	7,730,760,539	626.88	532.88
Maine.....	309,129,101	235,978,716	467.61	363.64
New Hampshire...	263,059,798	205,586,805	698.64	592.48
Vermont.....	162,098,513	86,806,775	487.63	261.24
Massachusetts.....	2,154,134,626	1,584,756 802	962.12	888.77
Rhode Island.....	321,764,503	252,536,673	931.28	913.23
Connecticut.....	358,913,956	327,177,385	480.95	525.42
New York.....	3,785,910,313	2,651.940.006	631.21	521.74
New Jersey.....	893,859,866	702,518,361	618.62	621.08
Pennsylvania.....	2,659,796,909	1,683,459,016	505.86	393.07
South Atlantic Div....	2,262,380,713	1,694,546,004	255.41	223.05
Delaware.....	66,210,519	59,951,643	392.96	408.92
Maryland	529,494,777	497,307,675	507.96	531.91
Dist. of Columbia..	153,307,541	99,401,787	665.42	559.62
Virginia.....	415,249,107	318,331,441	250.76	210.46
West Virginia.....	186,964,770	146,991.688	245.11	237.67
North Carolina.....	235,300,674	156,100,202	145.43	111.52
South Carolina....	168,262,669	133,560,135	146.17	134.15
Georgia	415,828,945	251,963,124	226.32	163.38
Florida.....	91,761,711	30,938,309	234.43	114.80
North Central Div.....	7,676,769,418	5,463,200,287	343.29	314.63
Ohio.....	1,778,138,477	1,534,360,508	484.20	479.78
Indiana.....	856,838,472	727,815,131	390.82	367.90
Illinois	809,682,926	786,616,394	211.61	255.57
Michigan.....	898,155,532	517,666,359	428.94	316.24
Wisconsin.....	577,066,252	406,303,185	342.09	308.86
Minnesota.....	588,820,213	258,028,687	452.30	330.48
Iowa	519,246,110	398,671,251	271.59	245.39
Missouri	887,975,928	561,939,771	331.44	259.15
North Dakota.....	88,203,054	a20,321,530	482.73	a150.33
South Dakota.....	140,154,930		426.25	
Nebraska.....	184,770,305	90,585,782	174.49	200.23
Kansas.....	347,717,219	160,891,689	243.65	161.52
South Central Div.....	2,546,065,973	1,399,329,491	233.35	156.89
Kentucky	547,596,788	370,743 384	294.62	224.87
Tennessee	382,760,191	228,154,432	216.55	147.93

TABLE No. 5—*Continued.*

STATES AND TERRITORIES.	ASSESSED VALUATION.			
	Total.		Per Capita.	
	1890.	1880.	1890.	1880.
South Cent Div—Con..				
Alabama	$ 258,979,575	$ 122,867,228	$171.17	$ 97.32
Mississippi	166,772,279	110,628,129	129.32	97.76
Louisiana	234,320,780	160,162,439	209.48	170.40
Texas	780,898,605	320,364,515	349.31	201.27
Oklahoma	.....	.....	.....	.....
Arkansas	174,737,755	86,409,364	154.88	107.67
Western Division	2,079,289,729	852,067,174	686.78	482.02
Montana	112,937,384	18,609,802	854.56	475.24
Wyoming	32,536,401	13,621,829	535.98	655.24
Colorado	220,554,064	74,471,693	535.07	383.23
New Mexico	43,227,686	14,675,209	281.44	122.74
Arizona	28,050,234	9,270,214	470.48	229.23
Utah	106,110,370	24,775,279	510.38	172.09
Nevada	25,350,094	29,291,459	553.97	470.42
Idaho	25,748,437	6,440,876	305.13	197.51
Washington	217,612,897	23,810,693	622.84	316.99
Oregon	166,025,731	52,522,084	529.14	300.52
California	1,101,136,431	584,578,036	911.44	676.05

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TABLE No. 6.

AD VALOREM TAXATION OF THE UNITED STATES IN DETAIL (ALASKA, INDIAN TERRITORY, AND OKLAHOMA EXCLUDED), BY STATES AND TERRITORIES—1890.

STATES AND TERRITORIES.	LEVY, EXCEPT FOR SCHOOLS.				LEVY FOR SCHOOLS.	
	Total.	State.	County.	Municipal.	State.	County and Minor Division.
The United States	$471,365,140	$48,556,597	$94,629,410	$202,985,855	$22,079,350	$103,113,928
North Atlantic Division	179,072,262	11,557,734	19,097,604	107 254.793	5,769,178	35,392,953
Maine	4,922,858	295,100	335,963	3,110,839	236,600	944,356
New Hampshire	4,063,640	618,701	484.709	2,359,242	.....	600,988
Vermont	2 105,395	176,651	11,302	1,296,625	.....	620,817
Massachusetts	31,503,666	1,782,891	1,989,182	21,036,686	.....	6 694,907
Rhode Island	3,797,417	591,353	.....	2,601,185	.....	604,879
Connecticut	6 112,197	.....	24,392	4,413 066	.....	1,674,739
New York	75,126 502	5,381,535	7,950,822	46,252,685	3,537,318	12,004,082
New Jersey	14,103.525	988,219	3,037 853	7,001,311	1,995,260	1,080,882
Pennsylvania	37,337,062	1,723,284	5,263,321	19,183,154	.....	11,167,303
South Atlantic Division	32,687,813	7,152 893	7,952,791	10,587,703	2,624.509	4,369,917
Delaware	922,179	.....	264,843	371,130	.....	286,206
Maryland	8,173,075	349.586	1,477,085	4,477,665	506,291	1,362,448
District of Columbia	2,28 ,110	1,791,922	.....	.....	488,188	.....
Virginia	5,230,614	1,299.502	1,622.749	1,893,837	362,979	651,547
West Virginia	3.253 900	470,337	1 267,898	346,047	186,963	982 655
North Carolina	2,394 458	702.215	897,435	432,316	274,394	88,098
South Carolina	2.745,048	799,248	814,261	677,892	336,525	117,122
Georgia	5,711,990	1,269,315	1,694,226	1,954,462	377,367	416,620
Florida	1,976,439	470,768	514,294	434,354	91,802	465,221
North Central Division	181,699,222	15 243,001	42,545,719	65,298 970	7,246,782	51,364,750

Ohio	33,889,417	3,022,840	8,577,134	11,741,423	1,778,144	8,769 876
Indiana	15,584,054	1,029,015	5,151,206	4,941,588	1,414,208	3,048,037
Illinois	33,090,429	1,825,429	4,650,182	14,768,426	1,092,105	10,754,287
Michigan	14,477,767	1,266,512	2,272,946	6,712,756	.....	4,225,553
Wisconsin	13,191,899	300,974	2,535 876	6,455,788	592,889	3,306,372
Minnesota	12,707,428	1,177,518	2,145,467	5,412,879	1,176,277	2,795,287
Iowa	15,175,432	1,298,111	5,001,928	2,859,737	.....	6,015 656
Missouri	16,447,206	2,069,457	3,830,726	6,167,702	592,166	3,787,155
North Dakota	2,427,563	400,277	649,581	385,059	176,306	815.740
South Dakota	3,626,313	342,242	1,049,048	533,426	282,228	1,419,369
Nebraska	8,325,566	1,029,066	2,859,289	2,091,130	142,459	2,203,622
Kansas	12,756,148	1,480,960	3,822,336	3,229,056	.....	4,223,796
South Central Division	36,522,622	6,830,724	10,885,995	10,651,421	3,745,488	4,408,994
Kentucky	7,379,326	1,095,011	1,627,874	2,615,406	1,231,483	809,552
Tennessee	5,636,772	1,148,284	1,296,218	1,808,781	574,652	808,837
Alabama	2,968,352	692,618	1,169 365	673,576	350,000	82,793
Mississippi	2,803,337	667,089	1,118,897	422 914	.....	594,437
Louisiana	5,103,675	1,141,715	773,957	2,636,198	263,766	288,039
Texas	9,817,369	1,561,794	3,970,261	2 268,608	976,111	1,040,595
Oklahoma	.....	.....	.....	.....	.....	.....
Arkansas	2,813,791	524,213	929,423	225,938	349,476	784,741
Western Division	41,383,221	7,772,245	14,147,301	9,192,968	2,693,393	7,577,314
Montana	2,347,370	225,873	1,328,806	341,145	.....	451,546
Wyoming	784,333	162,682	348,659	74,761	.....	198 231
Colorado	6,419,271	883,070	2,535,286	1,438,289	.....	1,562 626
New Mexico	1,043,316	376,194	373,740	37 672	129,684	126,026
Arizona	838,379	217,389	431,898	36,610	8,415	144,067
Utah	1,601,504	212,220	318,331	314,101	318,331	438,521
Nevada	735,910	215,477	359,842	36,377	12,671	111,543
Idaho	761 561	102,995	389,347	27,946	.....	241,273
Washington	5,209,714	718,123	1,864,532	1,211,771	.....	1,415,288
Oregon	2,887,013	495 934	1,174,026	349,776	.....	867.277
California	18,754 850	4,162,288	5,022,834	5,324,520	2,224 292	2,020,916

TABLE No. 7.

COMBINED DEBT OF THE UNITED STATES—1880 AND 1890.

CLASSES OF DEBT.	TOTAL.		PER CAPITA.	
	1890.	1880.	1890.	1880.
Total	$ 2,027,170,546	$ 3,045,796,011	$ 32.37	$ 60.73
National	891,960,104	1,922,517,364	14.24	38.33
State and Territory	228,997,389	297,244,095	3.66	5.93
County	145,048,045	124,105,027	2.32	2.47
Municipal	724,463,060	684,348,843	11.57	13.64
School District	36,701,948	17,580,682	0.59	0.35

TABLE No. 8.

STATE, COUNTY, MUNICIPAL AND SCHOOL DISTRICT DEBTS OF THE UNITED STATES, LESS SINKING FUND, BY STATES AND TERRITORIES—1880 AND 1890.

STATES AND TERRITORIES.	TOTAL COMBINED DEBT, LESS SINKING FUND.		PER CAPITA OF TOTAL DEBT.		STATE DEBT.	
	1890.	1880.	1890.	1880.	1890	1880.
The United States	$ 1 135,210,442	$ 1,123,278,647	$ 18.13	$ 22.40	$ 228,997,389	$ 297,244,095
North Atlantic Division	467,968,615	540,840,297	26.89	37.28	25,140,357	58,937,744
Maine	15,600,777	23,235,980	23.60	35.81	3,470 908	5,511,871
New Hampshire	8.148,362	10,792,583	21.64	31.10	2,691,019	3,629,613
Vermont	3 785,373	4,499,188	11.39	13.54	148,416	151,020
Massachusetts	81,550,027	91,909,651	36.42	51.55	7,267 349	20,785,216
Rhode Island	13,042,117	12,971,063	37.75	46.91	422,983	1.700,736
Connecticut	23,7(3,478	22,001,661	31.76	35.33	3,740 260	4 967,600
New York	201.763 217	218.845 804	33.64	43.06	2,308.230	7,659.222
New Jersey	49,333 589	49.382,675	34.14	43.66	1,022 642	649,248
Pennsylvania	71,041,675	107,201,692	13.51	25.03	4,068,610	13,883,218
South Atlantic Division	165,107,113	167,919,910	18.64	22.10	89.652,873	101,406,473
Delaware	2,919,084	2 371,296	17.32	16.17	887,573	905,461
Maryland	42,175,408	41,429,179	40.46	44.31	8,434,368	11,118,866
District of Columbia	19,781.050	22,498,323	85.86	126.66	19,781 050	22.498 323
Virginia	50,837,315	45,518,776	30.70	30.09	34,227,234	32,764,200
West Virginia	2,532,460	1,640 935	3.32	2.65	184,511	127.511
North Carolina	11,117,445	17,962,535	6.87	12.83	7,703,100	15,422,045
South Carolina	13,295,637	14.185,060	11.55	14.25	6,953,582	7,478,293
Georgia	20,272.095	19,648,265	11.03	12.74	10,449.542	9,917 862
Florida	2,176,619	2,665,541	5.56	9.89	1,031,913	1,173 912
North Central Division	320,238 281	246,058.507	14.32	14.17	41 656,112	49,085,648

Ohio	71,065,386	53,044,175	19.35	16.59	7,135,806	10 022,721
Indiana	24,442,631	18,352,649	11.15	9.28	8,538,059	4,996,090
Illinois	41,841,649	46,388,888	10.94	15.07	1,184,907	1,446,466
Michigan	16,941,928	12,055,902	8.09	7.36	5,308,294	3,252,758
Wisconsin	10,440,580	12,085,984	6.19	9.19	2,295 391	2,462,049
Minnesota	26,050,929	11,328 433	20.01	14.51	2,239,482	5,417,369
Iowa	11,275,319	8,137,767	5.90	5.01	245,435	545,435
Missouri	51,557,568	60,263,761	19.24	27.79	11,759.832	19,509,000
North Dakota	3,842,790	*b*998,860	21.03	*b*7.39	703,769	....
South Dakota	6,613,707		20.11		871,600	....
Nebraska	15,536,772	7,489,974	14.67	16.56	253,879	439,799
Kansas	40,629,022	15,912,114	28.47	15.97	1,119,658	993,961
South Central Division	138,255,311	143,982,958	12.60	16.14	66,281,194	83,468,995
Kentucky	19,432,885	14,982,449	10.46	9.09	1,671,133	1,094,424
Tennessee	29,543.843	40,750,137	16.71	26.42	19,695,974	30,802,668
Alabama	18,930,867	18,007,774	12.51	14.26	12,413,196	12,370,994
Mississippi	6,011,347	4,955,789	4 66	4.38	3,503,009	3,324,084
Louisiana	33,335,497	42,865,471	29.80	45.60	16,008,585	23.437,640
Texas	20,172,063	11,688,198	9.02	7.34	4,417.515	5,650,213
Oklahoma	.....	.....	.....	.....	.....	.....
Arkansas	10,828,809	10,733,140	9.60	13.37	*c*8,671,782	*d*6,788,972
Western Division	43,641,122	24,476 975	14.41	13.85	6,266,853	4,345,235
Montana	2,918,893	765,248	22.09	19.54	167,815	70,000
Wyoming	1,647,381	205,462	27.14	9.88	320,000	17,000
Colorado	8,411,027	3,627,742	20.41	18.67	599,851	146,338
New Mexico	2,831,438	84,872	18.44	0.71	870,000	....
Arizona	2,937,971	377,501	49.28	9.33	757,159	....
Utah	767,501	116,251	3.69	0.81	.....	9,120
Nevada	1,337,501	1,399,765	29.23	22.48	509,525	375,242
Idaho	1,594,333	229,882	18.89	7.05	218,493	82.944
Washington	3,145,658	239,311	9.00	3.19	300,000	....
Oregon	2,479,860	848,502	7.90	4.86	1,685	511,376
California	15,569,459	16,582,439	12.89	19.18	2,522,325	3,133,215

TABLE No. 8.—*Continued.*

STATES AND TERRITORIES.	COUNTY DEBT.		MUNICIPAL DEBT.		SCHOOL DISTRICT DEBT.	
	1890.	1880.	1890.	1880.	1890.	1880.
The United States	$145,048,045	$124,105,027	$724,463,060	$684,348,843	$36,701,948	$17,580,682
North Atlantic Division	27,585,070	31,576,032	405,572,083	445,423,924	9,671,105	4,902,597
Maine	434,346	451,809	11,695,523	17,192,266	.....	80,034
New Hampshire	556,987	779,034	4,718,025	6,318,329	182,331	65,607
Vermont	5,108	23,421	3,529,014	4,167,469	102,835	157,278
Massachusetts	4,051,830	1,371,213	70,230,848	69,753,222	.....	.....
Rhode Island	.....	.....	12,499,254	11,088,861	119,880	181,466
Connecticut	30,547	101,400	18,322,371	16,248,751	1,610,360	683,910
New York	10,936,638	12,399,308	187,348,163	198,206,841	1,170,186	580,433
New Jersey	3,728,130	6,668,463	42,990,338	41,367,057	1,592,479	697,907
Pennsylvania	7,841,484	9,781,384	54,238,547	81,081,128	4,893,034	2,455,962
South Atlantic Division	7,825,561	7,013,875	67,610,380	59,361,194	18,299	138,368
Delaware	618,400	44,000	1,413,111	1,417,633	.....	4,222
Maryland	893,776	1,377,325	32,847,264	28,932,988	.....	.....
District of Columbia	.....	.....	.....	.....	.....	.....
Virginia	1,774,535	1,283,574	14,835,546	11 380,414	.....	90,588
West Virginia	1,197,462	592,780	1,132,188	877,086	18,299	43,558
North Carolina	1,514,600	1,524,654	1,899 745	1,015,836	.....	.....
South Carolina	1,062,750	1,573,759	5,279,305	5,133,008	.....	.....
Georgia	429,380	181,790	9,393,173	9,548,613	.....	.....
Florida	334,658	435,993	810,048	1,055,636	.....	.....
North Central Division	69,110,453	54,380,941	184,219,923	130,897,630	25,251,793	11,694 288
Ohio	7,797,005	2,962,649	52,888,263	38,606,606	3,244,312	1,452,199

Indiana	6,406,239	4,048,054	9,498,333	9,308,505	(a)	.....
Illinois	11,016,380	14,181,134	26,456,965	27,354,982	3,183,397	3,406 306
Michigan	1,257,698	896,700	8,510,439	6,516,771	1,865.497	1,389,673
Wisconsin	1,529,681	2,292,254	6,303,695	7,055,114	311.903	276,567
Minnesota	3,317,657	901,412	18,427,368	4 318,180	2,066,422	691,472
Iowa	3,416,889	2,992,573	6,391,772	3,474,621	1,221,223	1,125,138
Missouri	10,240,082	12,073,312	28,092,103	27,934,665	1,465,551	746,784
North Dakota	1,372,261	b961,570	711,665	b37,290	1.055,095	.....
South Dakota	2,441,334		1,197,520		2,103,253	.....
Nebraska	5,510,175	5,120,362	7.124,506	1,102,172	2.648,212	827 641
Kansas	14,805,052	7,950,921	18,617.384	5,188,724	6,086,928	1,778,508
South Central Division	19,177,151	18,496,123	52,576,623	41,956,331	220,343	61,509
Kentucky	5,712,463	5,877,043	11,880,417	7,994,594	168,872	16,388
Tennessee	2,172,059	3.060,545	7,675,810	6,886,924	.....	.....
Alabama	1,433,321	1,683,266	5,084,350	3,953,514	....	.....
Mississippi	1,230,299	1,132,763	1,278.039	498,942	.....	.....
Louisiana	177,798	1,107,470	17,149,114	18,320.361	.....	.. ..
Texas	6,891,714	2,499,287	8,928,852	3,538,698	33,982	.....
Oklahoma	.....	.....	.....	.....	.....	.....
Arkansas	1,559,497	3,135,749	580,041	763,298	17,489	45,121
Western Division	21,349,810	12,638,056	14 484,051	6,709,764	1,540,408	783,920
Montana	2,004.513	659,696	614,519	....	132,046	35,552
Wyoming	1 083,790	169,377	243,591	19,085	.....	(e)
Colorado	4,601,588	2,592 363	2,955,962	560,573	253,626	328 468
New Mexico	1.815,083	84,872	127,085	....	19,370	.....
Arizona	1,954,414	353,217	200,165	11,284	26,233	13 000
Utah	49,859	15,132	717,612	91,999	.....	.....
Nevada	812,676	891,017	....	132,000	15,300	1,506
Idaho	1,234,987	143,742	29,211	2,500	111,642	696
Washington	1,507,786	204,384	1,046,510	34 927	291.362	(e)
Oregon	905,711	211,767	1,386,444	98,774	186,020	26,585
California	5,379,403	7,312,489	7,162,922	5,758,622	504,809	378,113

a Included in municipal debt. The amount of the school district debt so included in 1890 was, as reported by State Superintendent of Public Instruction, $891,906. *b* Dakota Territory. *c* Includes $3,703,757 held in treasury as cash. *d* Includes $1,543,145 held in treasury as cash. *e* No school reports received. See pages 879 and 880, Volume VII, Tenth Census Reports.

TABLE No. 9.

RECEIPTS AND EXPENDITURES OF THE NATIONAL, STATE AND LOCAL GOVERNMENTS COMBINED, POSTAL SERVICE AND SCHOOLS INCLUDED, ARRANGED IN ORDER OF AMOUNT.—1890.

RECEIPTS.	Amount.	EXPENDITURES.	Amount.
Total	$1,040,473,013	Total	$ 915,954,055
Ad valorem taxes on real and personal property	443,096,574	Pensions, charities and gratuities	146,895,671
Customs	229,668,584	Educational purposes and public schools	145,583,115
Internal revenue	142,606,706	Interest on debt	82,748,423
Postal service	60,882,098	Roads, sewers, ditches and bridges	72,262,023
Liquor license	24,786,496	Postal service	66,259,547
Income, funds and investments	14,546,352	Public buildings and sites, construction and purchase separately reported	38,890,970
Assessment for streets and bridges	13,196,991	Salaries separately reported, fees and com's.	37,552,655
Licenses, other than liquor	11,144,338	Military purposes	35,537,611
Tax on railroads separately reported	9,926,547	Police	23,934,376
Profit on coinage of silver dollars	9,385,417	Judiciary, including county courts, inquests, and inquiries	23,071,075
Tax on corp., except railroads, separately rept	8,758,184	Public buildings and sites, care and maintenance, including construction, not separately reported	17,950,177
Special assessments for sewers	8,254,978	Executive departments	16,770,801
Fees, fines and penalties	7,253,370	Fire	16,423,820
Sale of public lands	6,358,272	Naval establishment, except for new vessels	15,174,403
Proceeds, sales property other than pub'ic lnds	3,263,855	Penal and reformatory institutions	12,381,425
Penal and reformatory institutions	3,154,520	Improving harbors and rivers	11,737,438
Tax on banks and bankers separately rep'td.	3,153,135	Lighting	11,363,780
Sinking fund for Pacific railways	1,842,565	Congress and legislative	10,485,826
Fees, consular and lands	1,799,071	Constructing new war vessels	6,831,803
Fees on letters patent	1,347,621	Indians	6,708,047
Tax, circulation of national banks	1,301,327	Health	3,280,294
Customs fees, fines, penalties and forfeitures	1,299,325	Public parks and places	2,962,697
Interest on deposits	986,656	Foreign intercourse	1,648,277
Profit on coinage other than of silver dollars	831,828	Miscellaneous	199,499,801
Repayment of Interest by Pacific railways	705,691		
Tax on sealskins	262,500		
Waterworks and other enterprises, net	118,215		
Miscellaneous	30,541,797		

TABLE No. 10.

Receipts and Expenditures of the National Government, Including Postal Service—1880 and 1890.

RECEIPTS.		
CLASSIFICATION.	Year Ending June 30—	
	1890.	1880.
Total	$ 463 963,811	$ 394 097,773
Internal revenue	142 606,706	135 264,386
Customs	229,668,584	198,159,676
Sales of public lands	6,358 272	2,201,863
Tax on circulation of national banks	1,301,327	8,116,116
Repayment of interest by Pacific railways	705,691	810,834
Sinking fund for Pacific railways	1,842,565	805,180
Customs fees, fines, penalties, and forfeitures	1,299,325	1,533,069
Fees, consular and lands	1,799,071	1,468,876
Proceeds of sales of government property	192,123	262,174
Profit on coinage of silver dollars	9,385,417	3,236,938
Profit on other coinage	831,828	231,548
Revenue District of Columbia	2,809,131	2,016,199
Tax on sealskins	262,500	317,595
Fees on letters patent	1,347,621	776,108
Miscellaneous	2,671,552	5,581,731
Postal service	60,882,098	33,315,480

EXPENDITURES.		
CLASSIFICATION.	Year Ending June 30—	
	1890.	1880.
Total	a$357,896,034	$ 292,596,727
Congress	6,498,052	5,082,046
Executive department	11,293,861	6,878 443
Judiciary	4,349,692	4,347,531
Foreign intercourse	1,648,277	1,093,955
Improving harbors and rivers	11,737,438	8,518,674
Other expenses, military establishments	32,845,400	31,948,387
Constructing new war vessels	6,831,803	.....
Other expenses, naval establishments	15,174 403	15,686,672
Indians	6,708,047	6,514,161
Pensions	106,936,855	50,059,280
Construction of public buildings including sites	4,377,950	3,480,449
District of Columbia	5,677,420	3,699,856
Interest on public debt	36,099,284	82,508,741
Miscellaneous	41,458,005	36,235,728
Postal service	66,259,547	36,542 804

a Expenditures account of premium on loans paid not included.

TABLE No. 11.

Receipts and Expenditures of the Several States, Territories and Local Governments.—1890.

[The transactions of the National Government, not being distributable by states and territories, are not included in this table.]

States and Territories.	Receipts.				
	Total.	State.	Counties, Reported in Detail.	Municipalities Having 4,000 or More Population Reprt'd in Detail.	Additional, Estimated for Schools and for places not Reprt'd in Detail.
The United States	$ 584,835,526	$ 116,157,640	$ 80,176,436	$ 243,530,841	*a*$ 144,970,609
North Atlantic Division	233,309,873	41,460,694	20,101,574	139,273,794	32,473,811
Maine	6,685,638	1,530,898	458,750	2,908,229	1,787,761
New Hampshire	4,444,066	1,365,426	478,537	1,470,103	1,130,000
Vermont	2,355,443	522,508	11,293	284,592	1,537,050
Massachusetts	47,008,124	9,666,333	1,644,402	31,892,389	3,805,000
Rhode Island	5,457,949	1,096,058	(*b*)	3,861,891	500,000
Connecticut	8,716,613	2,395,131	119,732	3,726,750	2,475,000
New York	91,177,339	13,119,595	8,291,385	63,341,359	6,425,000
New Jersey	17,604,788	3,933,708	3,122,917	9,248,163	1,300,000
Pennsylvania	49,859,913	7,831,037	5,974,558	22,540,318	13,514,000
South Atlantic Division	40,838,457	14,093,323	4,621,052	13,537,682	8,586,400
Delaware	1,215,719	239,681	48,665	524,373	403,000
Maryland	10,008,371	2,045,469	1,337,705	6,111,297	513,900
District of Columbia	*c*2,710,259	2,710,259	.....	.....	.....
Virginia	7,084,444	2,705,337	556,216	2,467,891	1,355,000
West Virginia	3,733,240	1,196,244	684,184	287,812	1,565,000
North Carolina	2,999,036	1,203,092	323,767	409,177	1,063,000
South Carolina	3,357,000	1,136,554	949,853	805,593	465,000
Georgia	7,339,548	2,146,694	453,217	2,699,637	2,040,000

Florida	2,390,840	709,993	267,445	231,902	1,181,500
North Central Division	214,479,212	32,260,765	40,026,834	68,577,171	73,614,442
Ohio	41,042,205	5,849,854	8,464.204	14,673,147	12,055,000
Indiana	17,941.600	3,360,876	7,505,318	2 564,700	4.510,706
Illinois	34,184,118	3,946,185	2,187,536	17,375,397	10,675,000
Michigan	17,899.821	3,059,576	2,207,596	6,011,649	6,621,030
Wisconsin	16,020,483	2 621,632	1,530,909	5 232,942	6,635 000
Minnesota	18,705,100	3,737,604	4,638,241	7,814,755	2 514 500
Iowa	17,288,934	1,673,254	3,575,980	2,186,700	9,853,000
Missouri	21.524,058	3,471,748	3,401,643	8,912,667	5,738,000
North Dakota	2,546 093	.....	496,752	92,605	1,956,736
South Dakota	3,296,033	241,617	625,872	133,544	2 295,000
Nebraska	10,454,848	2,219,496	2,662,834	2,077,018	3,495,500
Kansas	13,575,919	2,078,923	2,729,949	1,502,047	7,265,000
South Central Division	45,151,678	16,018,096	4,170,864	10,557,838	14,404,880
Kentucky	8 596,983	3,839,290	390,708	2,571,985	1,795,000
Tennessee	6,295,918	1,595,608	462,516	1,882,794	2,355,000
Alabama	4,500,664	1,602,905	451,479	772,445	1,673,835
Mississippi	3,552,845	1,151,055	351,255	260 535	1,790,000
Louisiana	5,964,405	2,091,857	277,659	3,072,889	522,000
Texas	13 004 606	5,003,437	1,966,892	1,809,277	4,225,000
Oklahoma	.....	.....	.....	.....	.....
Arkansas	3,236,257	733,944	270,355	187,913	2,044,045
Western Division	51,056,306	12,324,762	11,256,112	11,584,356	15,891,076
Montana	2,777,450	311,000	1,282,888	244,562	939,000
Wyoming	806,599	(1)134,920	328,779	20,800	322,100
Colorado	7,921,009	1,317,409	1,911,634	260,966	1,431,000
New Mexico	383,763	305,000	39 763	.....	39,000
Arizona	(2)880,543	.....	215,710	20,057	644,776
Utah	2,304,485	223,412	297,416	939,957	843,700
Nevada	1,048,073	387,630	550,243	.....	110,200
Idaho	762,068	95,400	199,368	.....	467,300

TABLE No. 11.—*Continued.*

STATES AND TERRITORIES.	RECEIPTS.				
	Total.	State.	Counties, Reported in Detail.	Municipalities Having 4,000 or More Population Reprt'd in Detail.	Additional, Estimated for Schools and for Places not Reprt'd in Detail.
Western Division—Continued.....					
Washington.....	$ 6,007,020	$ 346,385	$ 1,516,728	$ 1,457,907	$ 2,686,000
Oregon.....	3,727.516	707,124	407.700	512 692	2,100.000
California.....	24,437,780	8,496,482	4,505,883	8,127,415	3,308,000

*a*Includes receipts for schools derived from all sources and known to be more than $75,000,000, though the precise amount can not be stated.
*b*No county financial system.
*c*Exclusive of the amount received from United States Treasury.
*d*Approximated from State Auditor's report for 1891.
*e*No detailed report received. General expenses of territorial government paid by the United States.

TABLE No. 11—*Continued*

STATES AND TERRITORIES.	EXPENDITURES.					
	Total.	State.	Counties Reported in Detail.	Municipalities Having 4,000 or More Population Reported in detail.	School Districts or other Divisions in Charge of Public Schools.	Additional, Estimated for Places Not Reported in Detail.
The United States....	$ 569 252,634	$ 77,105,911	$ 68,479,220	$ 212,799,056	$ 139,065,537	$ 71,802,910
North Atlantic Division..	224,256,890	27,118,333	20,752,551	115,250,204	47,625,548	13,510,254
Maine.....	5,780 108	1,012,308	434,627	2,145,211	1,114,902	1,073,060
New Hampshire.....	3,582,704	445,366	576,887	1,387,057	814,394	359,000
Vermont	2 152 317	401,605	9,962	231,046	689,917	819,787
Massachusetts	46 486 602	6,027,407	1,620,395	27,102,738	8,286,062	3,450,000
Rhode Island	5.699,999	769,559	(a)	3,512,450	917,990	500,000
Connecticut.....	8,488 362	1,865,132	184,766	3,392,218	2,123,839	922.407
New York.....	91 232 042	9,520,564	8,923,007	53,070,197	17,392,274	2,326,000
New Jersey.....	15,244 819	1 564,264	2,528,204	6,609 826	3,457,525	1,085 000
Pennsylvania.....	45,589,937	5,512,128	6,474,703	17,799,461	12,828,645	2,975,000
South Atlantic Division ..	42,586,762	12,047,224	3,837,345	12,803,812	8,630,711	5,267,670
Delaware	1,064,663	112,025	46,494	402,615	329 008	174,521
Maryland	10,091,521	1,160,722	1,168,039	5,356,549	1,910,663	495,548
District of Columbia..	5,042,002	4,135,878	.....	.....	906,124	.....
Virginia.....	7,451,365	1,867,036	493,623	2,715,941	1 577,347	797,418
West Virginia.....	3,550,973	513,717	640,931	271 334	1,284,991	840,000
North Carolina.....	3,223 703	1 052,945	258,416	499,141	718,225	694,976
South Carolina.....	3,098,682	1,105 527	678,120	718,775	460,260	136,000
Georgia	7,031,260	1,531,690	399,475	2,615,505	967,590	1,517,000

Florida	2,032,593	567,684	152,247	223,952	476,503	612,207
North Central Division	209.885,467	20,649,772	31,455,581	63,733,872	62,815,531	31,230,711
Ohio	40,325,610	3,427,709	6,799,574	14,038,081	10,755,246	5,305,000
Indiana	18,260,426	2,265,120	6,320,585	2,364,488	5,900,233	1,410,000
Illinois	33,715,078	2,664,452	1,876,363	14.860,734	11,288.529	3,025,000
Michigan	17,415,454	2·269,262	1,858,450	5,591,326	5,446,416	2,250,000
Wisconsin	14,887,090	1,769,662	1.416,967	4,204,175	3,711,286	3,785,000
Minnesota	18,559,150	2 237,219	2,202,245	9,057,049	4,033,516	1,029,121
Iowa	16,285,305	1,420,608	2,534.245	2,193.196	6,477,256	3,660,000
Missouri	21,011.260	1,969,3)2	2,966,919	7,536,779	5,128 260	3,410.000
North Dakota	2,692,246	.....	485,627	82,083	626,946	1,497,590
South Dakota	3,240,705	257,452	537,983	116,513	1,173,757	1,155,000
Nebraska	9,778,968	1 050,107	2,224,241	1,743,501	3,301,119	1,460,000
Kansas	13,714,175	1,318,879	2,232,382	1,945,947	4,972,967	3,244,000
South Central Division	43,976,319	10,056,290	4,119,626	9,451,530	9,869,449	10,479,424
Kentucky	8,388,509	2.372,184	322,859	2,205,701	2,026.552	1,461,213
Tennessee	6,364,411	1,376,961	482,529	1,704,570	1,300 351	1,500.000
Alabama	4,994,423	1,093,776	405 253	979,974	547,880	1 967,540
Mississippi	3,362,561	506,156	282.657	204,605	1,097,916	1 271,227
Louisiana	5,412,765	1,872.446	250,585	2,006,805	704.586	578.343
Texas	12,536,788	2,485,303	2,111,879	2,169,468	3,173,104	2,597,034
Oklahoma	.....	.....	.....	.....	.....	.....
Arkansas	2,916,862	349,464	263,864	180,407	1,019,060	1,104 067
Western Division	48,547,196	7,234,292	8,314,117	11,559,638	10,124,298	11,314,851
Montana	2,724,073	355,500	1,058,454	193,036	364,083	753,000
Wyoming	797,920	695,630	255,372	17,000	152,918	277,000
Colorado	6,349,025	937,932	1,314,810	276,904	1,681,379	2,138,000
New Mexico	576,532	143,750	50,657	.....	79,186	302,939
Arizona	997,575	.....	155,993	17,098	177,484	647,000
Utah	2,254,128	332.065	291,550	1,044,336	394,677	191,500
Nevada	1,047,368	366,538	382,233	.....	162.597	136,000
Idaho	690,367	99,424	177,625	.....	168,318	245,000

TABLE No. 11.—*Continued.*

STATES AND TERRITORIES.	EXPENDITURES.					
	Total.	State.	Counties, Reported in Detail.	Municipalities Having 4,000 or More Population Reprt'd in Detail.	School Districts or Other Divisions in Charge of Public Schools.	Additional, Estimated for Places not Reported in Detail.
Western Division—Con...						
Washington	$ 5,954,845	$ 504,609	$ 1,303,012	$ 2,093,034	$ 944,190	$ 1,110,000
Oregon	3,475,705	407,076	394,827	473,433	880,369	1,320,000
California	23,679,658	3,991,768	2,929,584	7,444,797	5,119,097	4,194,412

a No county financial system. *b* Approximated from state auditor's report for 1891.

TABLE No. 12.

EXPENDITURES, STATE AND LOCAL, INCLUDING PUBLIC SCHOOLS, TOTAL AND PER CAPITA, FOR 1890, AND OF EXPENDITURES FOR PUBLIC SCHOOLS, TOTAL AND PER CAPITA OF POPULATION AND PUPILS ENROLLED, FOR 1880 AND 1890, BY STATES AND TERRITORIES

STATES AND TERRITORIES.	EXPENDITURES, STATE AND LOCAL INCLUDING SCHOOLS, 1890.		EXPENDITURES ON ACCOUNT OF PUBLIC SCHOOLS.					
			Total. (*a*)		Per Capita of Population. (*b*)		Per Capita of Pupils Enrolled. (*b*)	
	Total.	Per Capita.	1890.	1880.	1890.	1880.	1890.	1880.
The United States..	$ 569,252,634	$ 9.09	$ 139,065,537	$ 79,528,736	$ 2.24	$ 1.59	$ 11.03	$ 7.99
North Atlantic Division.	224,256,890	12.89	47,625,548	27,881,737	2.74	1.92	15.35	9.45
Maine.....	5,780,108	8.74	1,114,902	991,297	1.69	1.53	7.98	6.57
New Hampshire....	3,582,704	9.52	814,394	568,103	2.16	1.64	13.62	8.78
Vermont	2,152,317	6.47	689,917	452 693	2.08	1.36	10.52	6.18
Massachusetts.....	46,486,602	20.76	8,286,062	4,720,951	3.70	2.65	22.30	14.91
Rhode Island.....	5,699,999	16.50	917,990	530,167	2.66	1.92	17.39	12.48
Connecticut	8,488,362	11.37	2,123,839	1,335,234	2.85	2.14	16.79	11.26
New York.....	91,232,042	15.21	17,392,274	9,936,662	2.90	1.95	16.69	9.67
New Jersey.....	15,244,819	10.55	3,457,525	2,039,938	2.39	1.80	14.77	9.94
Pennsylvania	45,589,937	8.67	12,828,645	7,306,692	2.44	1.71	12.69	7.69
South Atlantic Division.	42 586,762	4.81	8,630,711	5,139,291	0.98	0.68	4.96	4.15
Delaware.....	1,064,663	6.32	329,008	172,455	1.95	1.18	10.47	6.53
Maryland.....	10,091,521	9.68	1,910,663	1,395,284	1.83	1.49	10.37	9.30
District of Columbia	5,042,002	21.88	906,124	438 567	3.93	2.47	24.55	16.59
Virginia.....	7,451,365	4.50	1,577,347	889,862	0.95	0.59	4.61	4.03
West Virginia.....	3,550,973	4.66	1,284,991	720,967	1.68	1.17	6.65	5.01

North Carolina	3,223,703	1.99	718,225	383,709	0.44	0.27	2.20	1.50
South Carolina	3,098,682	2.69	460,260	367,259	0.41	0.37	2.37	2.72
Georgia	7,031,260	3.83	967,590	653,464	0.53	0.42	2.85	2.76
Florida	2,032,593	5.19	476,503	117,724	1.22	0.44	5.23	2.72
North Central Division	209,885,467	9.39	62,815,531	37,170,186	2.81	2.14	12.56	9.09
Ohio	40,325,610	10.98	10,755,246	7,707,630	2.93	2.41	13.49	10.24
Indiana	18,260,426	8.33	5,900,233	4,504,407	2.69	2.28	11.67	8.79
Illinois	33,715,078	8.81	11,288,520	7,536,682	2.95	2.45	14.50	10.70
Michigan	17,415,454	8.32	5,446,416	3,112,468	2.60	1.90	12.75	8.59
Wisconsin	14,887,090	8.83	3,711,286	2,163,845	2.20	1.64	10.55	7.22
Minnesota	18,559,150	14.26	4,033,516	1,622,919	3.10	2.08	14.33	8.70
Iowa	16,285,305	8.52	6,477,256	4,347,119	3.39	2.68	13.13	10.21
Missouri	21,011,260	7.84	5,128,260	3,092,332	1.91	1.43	8.27	6.36
North Dakota	2,692,246	14.73	626,946	c183,257	3.45	c1.36	17.67	c13.36
South Dakota	3,240,705	9.86	1,173,757		3.57		15.06	
Nebraska	9,778,968	9.23	3,301,119	1,079,966	3.12	2.39	13.74	10.71
Kansas	13,714,175	9.61	4,972,967	1,819,561	3.52	1.83	12.62	7.39
South Central Division	43,976,319	4.03	9,869,449	4,679,768	0.94	0.52	4.39	3.41
Kentucky	8,388,509	4.51	2,026,552	1,162,944	1.12	0.71	5.03	3.98
Tennessee	6,364,411	3.60	1,300,351	786,088	0.85	0.51	3.29	2.70
Alabama	4,994,423	3.30	547,880	430,131	0.37	0.34	1.85	2.29
Mississippi	3,362,561	2.61	1,097,916	679,475	0.85	0.60	3.29	2.87
Louisiana	5,412,765	4.84	704,586	455,758	0.63	0.48	5.67	5.63
Texas	12,536,788	5.61	3,173,104	782,735	1.42	0.49	6.66	4.44
Arkansas	2,916,862	2.59	1,019,060	382,637	0.92	0.48	4.67	3.53
Western Division	48,547,196	16.03	10,124,298	4,657,754	3.35	2.63	19.70	15.58
Montana	2,724,073	20.61	364,083	68,002	2.75	1.74	21.44	14.57
Wyoming	797,920	13.14	152,918	28,504	2.52	1.37	19.42	9.80
Colorado	6,349,025	15.40	1,681,379	589,127	4.08	3.03	25.67	20.85
New Mexico	576,532	3.75	79,186	28,973	0.55	0.24	4.66	6.09
Arizona	997,575	16.73	177,484	61,172	2.98	1.51	22.22	14.52
Utah	2,254,128	10.84	394,677	170,887	1.90	1.19	10.85	6.63

TABLE No. 12.—*Continued.*

STATES AND TERRITORIES.	EXPENDITURES, STATE AND LOCAL, INCLUDING SCHOOLS, 1890.		EXPENDITURES ON ACCOUNT OF PUBLIC SCHOOLS.					
			Total. (*a*)		Per Capita of Population. (*b*)		Per Capita of Pupils Enrolled (*b*)	
	Total.	Per Capita.	1890.	1880.	1890.	1880.	1890.	1880.
Western Division—Con.								
Nevada	$ 1,047,368	$ 22.89	$ 162,597	$ 212 164	$ 3.55	$ 3.41	$ 22.01	$ 23.79
Idaho	690,367	8.18	168,318	38 411	1.99	1.18	11.76	6.58
Washington	5 954 845	17.04	944.190	112,615	2.70	1.50	17.03	7.62
Oregon	3,475,705	11.08	880,369	316 885	2.81	1.81	13.90	8.46
California	23,679,658	19.60	5,119,097	3,031,014	4.24	3.51	23.08	18.77

a Amount expended for colleges, academies, normal schools, and other educational purposes not included.
b Several counties not reporting expenditures in full, the per capita, both of population and enrollment, for 1890 is based upon counties reporting.
c Dakota territory.

STATISTICS OF REAL ESTATE MORTGAGES.

The more important results of the investigation of real estate mortgages are contained in the seven tables that follow. The census day of this investigation is January 1, 1890.

The mortgage movement in the United States during the ten years 1880 to 1889 is shown in Table 1, which exhibits the number of mortgages made each year and the amount of debt secured by them without regard to the fact that it was or was not in force January 1, 1890.

Table 2 shows the number of acres and lots covered by the mortgages contained in Table 1, and by the mortgages not stating the amount of debt secured by them contained in Table 2.

Table 4 presents the average unpaid amount of each mortgage in force. Percentages of the true value of all taxed real estate represented by the mortgage debt in force are contained in the same table, and these percentages are computed upon the value of real estate not mortgaged as well as mortgaged. In regard to the existing mortgage debt per capita, shown in this table, it should be borne in mind that all persons, including those who are not mortgage debtors, are included in the computation, and the same may be said in regard to the averages showing the population to each mortgage in force. The only light that is thrown upon the increase of existing mortgage debt is shown in the last column, which contains percentages of the increase of mortgage debt incurred in 1889 over that incurred in 1880.

Special investigations were conducted in 102 counties to discover the reasons why mortgage debt was incurred, and the condensed results are exhibited in Table 7. These counties are well distributed geographically throughout the United States, and there is no cause to believe that the objects for which mortgage debt was incurred in them are materially different from those in the country at large.

TABLE No. 1.

Number and Amount of Real Estate Mortgages Made—1880 to 1889.

YEARS	MORTGAGES STATING AMOUNT OF DEBT.					
	Total.		On Acres.		On Lots.	
	Number.	Amount.	Number.	Amount.	Number.	Amount.
The United States..	9,517,747	$ 12,094,877,793	4,747,078	$. 4,896,771,112	4,770,669	$ 7,198,106,681
1880	643,143	710,888,504	370,984	342,566,477	272,159	368.322,027
1881	729,767	864.319,429	403.892	388 946.066	325,875	475,373,363
1882	820,809	1,035,535,000	446,250	462,253,046	374,559	573,281,954
1883	877.317	1,090,857,825	468,004	495,433,962	409,313	595,423,863
1884	907,581	1,113,804,603	472 676	485,188,747	434,905	628,615,856
1885	975,820	1,136 067,726	503,404	481,167,109	472,416	654,900,617
1886	1,047,851	1,300,808,911	525,769	523,576,084	522,082	777,232,827
1887	1,167,005	1,571,982,665	531,925	600.997,068	635,080	970,985,597
1888	1.122,131	1,518.044,856	499,080	530,912,834	623,051	987,132,022
1889	1,226,323	1,752,568,274	525,094	585,729,719	701,229	1,166,838,555

TABLE No. 2.

NUMBER OF ACRES AND LOTS COVERED BY THE REAL ESTATE MORTGAGES MADE—1880 TO 1889.

YEARS.	NUMBER OF ACRES COVERED BY ALL MORTGAGES ON ACRES.			Number of Lots Covered by all Mortgages on Lots.	NUMBER OF MORTGAGES NOT STATING AMOUNT OF DEBT.		
	Total.	Stated.	Estimated.		Total.	On Acres.	On Lots.
The United States	622,855,091	581,054,962	41,800,129	8 027,031	18,596	11,190	7,406
1880	42,743 013	39,324 369	3,418,644	429,955	1,584	981	603
1881	47,708 253	44,084,858	3,623 395	514,811	1,802	1,087	715
1882	59,605,656	55,571,957	4,033.699	596,552	2,130	1,316	814
1883	66,362,193	62 014,457	4,347,736	649 935	2 001	1,168	833
1884	63,963 886	59,847 106	4,116,780	694,584	1,683	1,027	656
1885	66,155 151	61 772 821	4,382 330	754,396	1 830	1,128	702
1886	68 840,143	64,443,612	4,396,531	857,856	1.698	1,032	666
1887	71,327.007	66 931,945	4,395 062	1,121,304	1,954	1,187	767
1888	65,471,532	61,027,440	4,444,092	1,125.304	1,875	1,130	745
1889	70,678,257	66,036,397	4,641 860	1 282,334	2,039	1,134	905

TABLE No. 3.

NUMBER AND AMOUNT OF REAL ESTATE MORTGAGES IN FORCE JANUARY 1, 1890, BY STATES AND TERRITORIES.

STATES AND TERRITORIES.	TOTAL.		ON ACRES.		ON LOTS.	
	Number.	Amount.	Number.	Amount.	Number.	Amount.
The United States	4,777,698	$ 6,019,679,985	2,303,061	$ 2,209,148,431	2,474,637	$ 3,810,531,554
Alabama	35,732	39,027,983	27,424	28,762,387	8,308	10,265,596
Arizona	1,474	2,348,519	715	1,580,301	759	768 218
Arkansas	25,138	14,366,595	17,818	9,051,117	7,320	5,315,478
California	112,637	241,050,181	45,127	120,890,877	67,510	120,159.304
Colorado	54,600	85,058,793	20,484	30,195,056	34,116	54,863,737
Connecticut	57,996	79,921,071	12,311	13,176,736	45,685	66,744.335
Delaware	9,641	16,122,696	2,768	5,642.705	6,873	10,472,991
District of Columbia	23,923	51,986,589	319	2.226,277	23,604	49,760,312
Florida	20,681	15,505 119	14,094	10,629.142	6,587	4,875 977
Georgia	48,519	27,387,590	34,731	16,969,687	13,788	10,417,903
Idaho	3,143	3,167,249	2,506	2,811,130	637	356,119
Illinois	297,233	384,299,150	128,986	165,289,112	168,247	219,010 038
Indiana	171,420	110,730,643	106,155	74,553.217	65,265	36,177,426
Iowa	252,559	199,774,171	171,452	149,457,144	81,107	50.317,027
Kansas	298,884	243,146,826	203,306	174,720,071	95,578	68,426,755
Kentucky	60,284	45,693,749	34 612	23,779,911	25,672	21,913,838
Louisiana	20,372	28,513,909	11,352	15,750,153	9,020	12,763,756
Maine	58,851	32,627,208	30,985	14,150,646	27.866	18.476,562
Maryland	53,908	64,577,803	21,139	27.828,999	32,769	36,748,804
Massachusetts	178,202	323,277,668	33,385	42 441,247	144,817	280,836 421
Michigan	222,761	150,472,700	144,023	95,753,329	78,738	54,719,371

Minnesota	195,580	197,745,989	97,078	75,355,562	98,502	122,390,427
Mississippi	30,767	19,075 980	26,186	15,829,914	4,581	3,246,066
Missouri	192 028	214,609,772	103,161	101,718,625	88,867	112,891,147
Montana	5,937	8,729,907	2,385	5,094,329	3,552	3,635,578
Nebraska	155,377	132.902,322	107,175	90,506,968	48,202	42,395,354
Nevada	1 256	2,194,995	928	1,836,655	328	358,340
New Hampshire	25.189	18,968,259	14,557	9,430,540	10,632	9,537,719
New Jersey	141,704	232 565.919	25,197	54 025.990	116,507	178,539,929
New Mexico	1 523	6,644,673	567	5,839,416	956	805,257
New York	579.472	1,607,874,301	156,814	217,813,055	452,658	1,390.061,246
North Carolina	47,404	21,471,428	36 143	14.537.449	11,261	6,933,979
North Dakota	38,767	25,777,480	33,734	22 098,092	5,033	3,679,388
Ohio	271 055	259 842,188	119,730	134,107,706	151,325	125.734.482
Oregon	22,553	22,928,437	16,250	15,983,361	6,303	6,945,076
Pennsylvania	518,165	*a*613,105,802	*a*140,127	*a*121,844,907	*a*378,038	*a*491,260.895
Rhode Island	20,999	36,778,243	2,640	5.262,243	18,359	31,516 000
South Carolina	27,065	13,780,302	19,900	9,060,351	7,165	4,719,951
South Dakota	60,221	36,115,773	50,151	29,356,865	10,070	6,758,908
Tennessee	39,470	40,421,396	17,196	16,425,144	22,274	23,996,252
Texas	93.877	93 864,178	72,922	75,131,355	20,955	18,732 823
Utah	5,908	8 040,829	2,059	2,426,018	3,849	5,614.811
Vermont	34,388	27,907,687	22,294	19,439,988	12,094	8,467,699
Virginia	34,192	28,691,726	20,123	16,564,282	14 069	12,127,444
Washington	29.632	44,078,449	18,449	24,727.245	11,183	19,351,204
West Virginia	29,357	19,702,505	20,450	14,517,092	8,907	5,185,413
Wisconsin	164,826	121,838,168	111,735	81,535,361	53,091	40,302,807
Wyoming	3,028	4,967,065	1,418	3,013,674	1,610	1,953,391

a The records of confessions of judgment in this state, which have been taken as mortgages, do not disclose whether they incumber acres or lots, but in the summary for the state, in Table No. 1, the figures for these two classes of mortgages have been estimated by using ratios derived from the figures for New York.

TABLE No. 4.

AVERAGE AMOUNT OF EACH REAL ESTATE MORTGAGE IN FORCE JANUARY 1, 1890, RATIO OF EXISTING DEBT TO VALUE AND POPULATION, AND THE INCREASE OF DEBT BY STATES AND TERRITORIES.

STATES AND TERRITORIES.	AVERAGE UNPAID AMOUNT OF EACH MORTGAGE IN FORCE.			Perctge. of Debt in Force of True Value of all Taxed Real Estate.	Per Capita Existing Debt.	Ave'ge Population to Each Mortgage in Force.	Perc'tage of Increase of Debt Incurred in 1889 over 1880.
	Total.	For Acres.	For Lots.				
United States..	$1,260	$ 959	$1,540	16.67	$ 96	13	146.53
Alabama	1,092	1,049	1.236	15.44	26	42	414.04
Arizona	1,593	2,210	1,012	4.82	39	40	43.66
Arkansas	572	508	726	6.70	13	45	205.71
California	2,140	2 679	1,780	15.90	200	11	225.35
Colorado	1,558	1,474	1,608	13 08	206	8	491.84
Connecticut	1,378	1,070	1.461	16.44	107	13	92.50
Delaware	1,672	2,041	1,524	15 92	96	17	81.65
Dist. of Columbia	2,173	6,979	2,108	22 03	226	10	351.21
Florida	750	754	740	8.49	40	19	558.64
Georgia	564	489	756	7.15	15	38	261.85
Idaho	1,008	1,122	559	4.29	38	27	589.93
Illinois	1,293	1,281	1,302	12.36	100	13	158.58
Indiana	646	702	554	9.18	51	13	73.94
Iowa	791	872	620	16 64	104	8	61.75
Kansas	814	859	716	26.83	170	5	187.12
Kentucky	758	687	854	7.01	25	31	92.83
Louisiana	1,400	1,387	1,415	11.92	25	55	41.83
Maine	554	457	663	13.95	49	11	33.28
Maryland	1,198	1,316	1,121	10.96	62	19	67.70
Massachusetts	1,814	1,271	1,939	19.32	144	13	168.05
Michigan	675	665	695	13 92	72	9	21.92
Minnesota	1,011	776	1,243	20 69	152	7	296.09
Mississippi	620	605	709	9.74	15	42	156 22
Missouri	1,118	986	1 270	15.82	80	14	235.15
Montana	1,470	2,136	1,024	4.78	66	22	578.18
Nebraska	855	844	880	20 03	126	7	381.01
Nevada	1,748	1,979	1,093	4.59	48	36	a19.12
New Hampshire	753	648	897	12.12	50	15	66.70
New Jersey	1,641	2,144	1,532	26.18	161	10	136.95
New Mexico	4,363	10.299	842	11.99	43	101	a12.21
New York	2,775	1,389	3,289	30.62	268	10	148.28
North Carolina	453	402	616	8.25	13	34	109.62
North Dakota	665	655	731	20.03	141	5	237.97
Ohio	959	1,120	831	10.94	71	14	43.48
Oregon	1,017	984	1,102	7.52	73	14	173.10
Pennsylvania	1,183	870	1,300	17.16	117	10	102.77

TABLE No. 4—*Continued.*

STATES AND TERRITORIES.	AVERAGE UNPAID AMOUNT OF EACH MORTGAGE IN FORCE.			Perct'ge. of Debt in Force of True Value of all Taxed Real Estate.	Per Capita Existing Debt.	Ave'ge Population to Each Mortgage in Force.	Perc'tage of Increase of Debt Incurred in 1889 over 1880.
	Total.	For Acres.	For Lots.				
Rhode Island	$1,751	$1,993	$1,717	11.92	$106	16	102.88
South Carolina	509	455	659	8.19	12	43	93.12
South Dakota	600	585	671	26.82	110	5	771.77
Tennessee	1,024	955	1,077	8.80	23	45	313.06
Texas	1,000	1,030	894	8.30	42	24	420.12
Utah	1,361	1,178	1,459	6.48	39	35	720.21
Vermont	812	872	700	22.05	84	10	*a*0.23
Virginia	839	823	862	6.38	17	48	157.73
Washington	1,488	1,340	1,730	9.45	126	12	3,253.02
West Virginia	671	710	582	8.33	26	26	95.39
Wisconsin	739	730	759	11.91	72	10	82.73
Wyoming	1,640	2,125	1,213	18.82	82	20	612.31

a Decrease.

TABLE No. 5.

RATIO OF REAL ESTATE MORTGAGES IN FORCE JANUARY 1, 1890, TO NUMBER OF ACRES AND LOTS, BY STATES AND TERRITORIES.

STATES AND TERRITORIES.	Average Amount of Debt in Force to Each Mortgaged—		Average No Covered by Each Mortgage in Force		Percentage of No. Mortgaged of No. Taxed.	
	Acre.	Lot.	Acres.	Lots.	For Acres.	For Lots.
The states and territories represented	$ 8.08	$ 916	119	1.68	28.86	23.99
Alabama	4.72	722	222	1 71	21.96	.....
Arizona	7.08	326	312	3.11	6.39	.....
Arkansas	3.53	319	144	2.27	10.33	.....
California	10.92	642	245	2.77	34 45	.....
Colorado	8.64	300	171	5.35	30.02	.....
Connecticut	29.92	1,651	36	0.88	17.70	.....
Delaware	19.51	1,374	105	1.11	....	.....
District of Columbia	189 39	1,344	37	1.57	51.25	.....
Florida	4.56	281	165	2.64	9.76	.....
Georgia	2.18	611	224	1.24	21.02	.....
Idaho	7.82	227	143	2.47	35 64	.....
Illinois	15.50	765	83	1.70	30.78	26.14
Indiana	10.93	384	64	1.44	30.28	.....
Iowa	9.17	307	95	2.02	46 95	.....
Kansas	6.57	258	131	2.78	60.32	21.24
Kentucky	6.86	697	100	1.22	13.73	.....
Louisiana	4.27	692	325	2.04	16.73	.....
Maine	3.46	637	132	1.04	....	.....
Maryland	13.49	884	98	1.27	...	.....
Massachusetts	46.12	2,117	28	0.92	20.49	.....
Michigan	9.90	422	67	1.65	30.06	.....
Minnesota	7.38	629	105	1.98	35.73	.....
Mississippi	2.89	387	209	1.83	20.12	.....
Missouri	10.01	726	98	1.75	25.41	28.98
Montana	9.03	457	237	2.24	11.63	.....
Nebraska	6.43	447	131	1.97	54.73	20.41
Nevada	5.02	512	394	2.13	....	.....
New Hampshire	8.19	912	79	0.98	....	.....
New Jersey	35.69	1,036	61	1.48	46.73	.....
New Mexico	3.58	317	2,876	2.66	17.19	.....
New York	19.15	2,147	73	1.53	40.43	.....
North Carolina	2.97	521	135	1.18	17.85	.....
North Dakota	5.04	348	130	2.10	33.38	.....
Ohio	17.28	598	65	1.39	30.42	.....
Oregon	6.32	452	156	2.44	31.69	.....
Pennsylvania	13.24	861	66	1.51	36 96	.....
Rhode Island	54.51	1,052	37	1.63	....	.....

TABLE No. 5.—*Continued.*

STATES AND TERRITORIES.	Average Amount of Debt in Force to Each Mortgaged—		Average No. Covered by Each Mortg'ge in Force.		Percentage of Number Mortgaged of Number Taxed.	
	Acre.	Lot.	Acres.	Lots.	For Acres.	For Lots.
South Carolina	$ 2.44	$ 530	187	1.24	21.30	25.94
South Dakota	4.20	229	140	2.93	51.76	.....
Tennessee	5.44	729	176	1.48	11.46	.....
Texas	2.33	363	441	2.46	27.61	.....
Utah	7.05	919	167	1.59	.....	.....
Vermont	11.66	692	75	1.01	31.86	.....
Virginia	4.75	588	173	1.46	13.59	.....
Washington	9.03	622	148	2.78	29.69	.....
West Virginia	3.79	441	187	1.32	23.14	.....
Wisconsin	7.98	440	91	1.72	32.56	.....
Wyoming	3.67	498	580	2.44	14.01	.....

TABLE No. 6.

ANNUAL INTEREST CHARGE AND AVERAGE RATE OF INTEREST ON THE REAL ESTATE MORTGAGE DEBT IN FORCE JANUARY 1, 1890, BY STATES AND TERRITORIES.

STATES AND TERRITORIES,	ANNUAL INTEREST CHARGE.			AVERAGE RATE OF INTEREST.		
	Total.	On Acres.	On Lots.	Total.	On Acres.	On Lots.
The United States	$ 397,442,792	$ 162,652,944	$ 234,789,848	6.60	7.36	6.16
Alabama	3,114 645	2,306,743	807,902	7.98	8.02	7.87
Arizona	255 923	147,758	108,165	10.90	9.35	14.08
Arkansas	1,302,260	825,462	476,798	9.06	9.12	8.97
California	21,225,090	10,747,199	10,477,891	8.81	8.89	8.72
Colorado	7,293,447	2,690,379	4,603,068	8.57	8.91	8.39
Connecticut	4,508,780	751,074	3,757,706	5.64	5.70	5.63
Delaware	921,336	325,423	595,913	5.71	5.76	5.69
District of Columbia	3 083,774	128,011	2,955,763	5.93	5.75	5.94
Florida	1,517,102	1,048,033	469,069	9.78	9.86	9.62
Georgia	2,215,774	1,367,757	848,017	8.09	8.06	8.14
Idaho	335,639	294,044	41,595	10.60	10.46	11.68
Illinois	25,767,047	11,487,593	14,279,454	6.70	6.95	6 52
Indiana	7,571,677	5,144,172	2,427,505	6.84	6.90	6.71
Iowa	15,239,082	11,269,069	3,970,013	7.63	4.54	7.89
Kansas	21,115,907	15,025,926	6,089,981	8.68	8.60	8.90
Kentucky	2,855,720	1,512,402	1,343 318	6.25	6.36	6.13
Louisiana	2,186,444	1,252,137	934,307	7.67	7.95	7.32
Maine	2,005,393	880,170	1,125,223	6.15	6.22	6.09
Maryland	3,784,366	1,641,911	2,142,455	5.86	5.90	5.83

Massachusetts	17,586,936	2,393,686	15,193,250	5.41	5.64	5.41
Michigan	10,727,335	6,836,788	3,890,547	7.13	7.14	7.11
Minnesota	15,145,571	5,990,767	9,154,804	7.66	7.95	7.48
Mississippi	1,812,872	1,516,506	296,366	9.50	9.58	9.13
Missouri	16,474,676	8,290,068	8,184,608	7.68	8.15	7.25
Montana	926,068	506,886	419,182	10.61	9.95	11.53
Nebraska	11,034,084	7,629,737	3,404,347	8.30	8.43	8.03
Nevada	208,179	169,156	39,023	9.48	9.21	10.89
New Hampshire	1,134,302	563,946	570,356	5.98	5.98	5.98
New Jersey	13,322,735	3,128,105	10,194,630	5.73	5.79	5.71
New Mexico	544,455	455,474	88,981	8.19	7.80	11.05
New York	88,347,933	12,589,595	75,758,338	5.49	5.78	5.45
North Carolina	1,658,288	1,122,291	535,997	7.72	7.72	7.73
North Dakota	2,409,457	2,063,962	345,495	9.35	9.34	9.39
Ohio	17,049,834	8,864,519	8,135,315	6.56	6.61	6.51
Oregon	2,166,871	1,500,838	666,033	9.45	9.39	9.59
Pennsylvania	34,382,663	6,872,053	27,510,610	5.61	5.64	5.60
Rhode Island	2,103,195	303,631	1,799,564	5.72	5.77	5.71
South Carolina	1,153,482	779,190	374,292	8.37	8.60	7.93
South Dakota	3,416,825	2,797,709	619,116	9.46	9.53	9.16
Tennessee	2,423,641	983,866	1,439,775	6.00	5.99	6.00
Texas	9,012,775	9,190,071	1,822,704	9.60	9.57	9.73
Utah	779,926	240,904	539,022	9.70	9.93	9.60
Vermont	1,666,935	1,160,567	506,368	5.97	5.97	5.98
Virginia	1,727,893	990,544	737,349	6.02	5.98	6.08
Washington	3,895,673	2,101,816	1,793,857	8.84	8.50	9.27
West Virginia	1,193,350	873,929	319,421	6.06	6.02	6.16
Wisconsin	8,329,887	5,593,326	2,736,561	6.84	6.86	6.79
Wyoming	507,545	297,751	209,794	10.22	9.88	10.74

TABLE No. 7.

PERCENTAGE OF NUMBER AND ORIGINAL AMOUNT OF MORTGAGES IN FORCE JANUARY 1, 1890, ACCORDING TO SPECIFIED OBJECTS OF INDEBTEDNESS, AS DETERMINED BY PERSONAL INQUIRY—TOTAL FOR 102 SELECTED COUNTIES.

OBJECTS OF INDEBTEDNESSS.	For Number.	For Amount.	OBJECTS OF INDEBTEDNESS.	For Number.	For Amount.
Total, 102 counties.	100.00	100.00	Purchase money, improvements, business and personal property(combined with farm and family expenses).....	2.06	1.32
Purchase money.....	54.67	56.66			
Improvements.....	20.96	20.81			
Purchase money and improvements(combined).....	4.50	5 09	Farm and family expenses	5.40	1.73
Business.....	6.01	8.92	All other objects....	2.27	1.95
Farm machines, domestic animals and personal property..	1.95	0.70	Total for purchase money and improvements (not combined with other objects).....	80.13	82.56
Purchase money, improvements, business and personal property(combined with one another)..	1.73	2.19			
Purchase money, improvements, business and personal property(combined with objects other than farm and family expenses).....	0.45	0.63	Total for purchase money, improvements,business and personal property (not combined with other objects).....	89.82	94.37

COST OF PRODUCING WHEAT.

The raising of wheat being, by all odds, the leading industry in the State of North Dakota, and apparently destined to hold its pre-eminence for a good many years to come, it was deemed advisable to undertake to determine officially, as nearly as possible, the actual cost of producing this crop. While the United States Government has made such investigations for all the States, and several of the States themselves have pursued similar inquiries with reference to corn, and possibly some other crops, so far as this office is aware no State Government has heretofore undertaken to ascertain the cost of producing wheat within its own borders.

Numerous individual statements have appeared from year to year, which differ considerably; but as such statements are more likely to be made by the best farmers, it follows that the results thus promulgated are probably approximately what wheat can be produced for on a well-managed farm, and not what it actually does cost the great mass of the farmers.

While this investigation is probably to some extent open to the same criticism—a fault which it would be very difficult to entirely eliminate without the use of greater facilities and more money than has been granted to this office—it has been constantly sought to make the results here given as fair and trustworthy as possible. No discrimination has been practiced in the selection of farmers from whom information was asked—the questions being sent indiscriminately to large and small farmers, successful and unsuccessful; but naturally a large per cent. of the better class of farmers would be likely to answer than of the poorer class. Also, many farmers do not keep accounts, and are unable to give accurate information; and probably such farmers number within their ranks a smaller percentage of good farmers than are found among those that keep accounts and are able to give detailed statements. So, as might be expected, the average yield of the farmers that have given information for this investigation is somewhat larger than the average for the State at large. In 1893 the average for the State was little more than ten bushels per acre, while

the average for the farms here reported is 11.4 bushels. Thus, while the figures are as fairly representative as can be arrived at with the methods at the command of the Commissioner, they doubtless represent on the average a slightly better class of farmers than the average for the entire State presents.

As is well known, the Commissioner is allowed no money to defray any expenses for traveling around among the farmers, nor to send any agents for that purpose—which would be by far the best method of obtaining information on such a subject. For several reasons it would be entirely useless to ask the assessors to collect such information, and the only other method was through the mails—at best an unsatisfactory and not altogether reliable plan. But the best use possible has been made of the facilities available.

To begin with, a great deal of care was exercised in framing the questions sent out to the farmers. The forms of inquiry used by the United States Government for wheat and corn, and by the States of Iowa and Nebraska for corn, were examined, and a set of questions prepared that was thought to be best adapted to this State. Samples of these were then sent to a number of well known practical farmers of the State, and their criticism and suggestions solicited. A number of replies were received, from which it was seen that there were about as many methods of getting at such information as there were farmers consulted. Almost every intelligent farmer who tries to arrive at the cost of production of his different crops, has a method somewhat his own, and each can, of course, best figure upon his own method. The idea, then, of preparing a blank to suit all, is impossible, and the one used was thought to best fill the requirements. Forms could have been used which, in the hands of farmers highly educated in business matters, would have been more sutisfactory and probably productive of more accurate results. But information was also desired from average farmers who are not expert book-keepers, and so as simple a form as possible must be devised, and yet one that would cover all the ordinary expenses of producing a crop.

The following is a copy of the questions used, and the circular accompanying them:

COST OF PRODUCING WHEAT PER ACRE.

DEPARTMENT OF AGRICULTURE AND LABOR, NORTH DAKOTA,
COMMISSIONER'S OFFICE, BISMARCK, JANUARY 20, 1894.

The raising of wheat is, and for some time at least must continue to be, the leading industry in this State The sharp competition in the markets necessitates the reducing of the cost of production to its minimum; and the first step in this process must be the ascertaining of the exact cost to the farmer under present circumstances. Various private estimates have been made and published, in which the cost of production has varied widely.

Similar offices in other States have undertaken to ascertain the cost of production in their chief agricultural and manufacturing industries, and it seems not only fitting, but imperative, that the cost of producing North Dakota's great staple should be officially determined with the greatest possible accuracy. This office will undertake, with the aid of the farmers, to determine the question as accurately as possible.

To ask the cost for "an average year," is believed to be too indefinite and uncertain to bring satisfactory results; and so it has been determined to request information as to a particular year—first, for the last year, 1893. To aid in this investigation, will you kindly fill out the enclosed blank for the last year, giving as exact figures as possible for each item of expense. If several hundred replies are received from representative farmers, an average of them all will approximate very closely the cost of producing and marketing the last crop. Then, similar information gathered for each of a series of years, will give the average cost as well as the average returns for one year with another. If you can fill out the blank accurately for any other years than 1893, kindly answer the question at the bottom, and blanks will be sent you for each year for which you can give information.

Your cordial co-operation in this work is respectfully solicited, believing that the result will be of advantage to the farmers and wheat growers. All replies will be considered strictly confidential, and only the aggregates or averages will be published. Thanking you in advance for whatever aid you may be able to extend in the work in hand, I am,

Very respectfully,

NELSON WILLIAMS,
Commissioner of Agriculture and Labor.

COST OF PRODUCTION OF WHEAT FOR THE YEAR 1893.

Name....., Postoffice....., County of..... ....., N. D.
Number of acres (cultivated) in farm..... .....
Value of land per acre, including improvements..... $.....
Number of acres in wheat in 1893..... .....

Rent of land, per acre..... .....
Plowing ground and preparing it for seed, per acre..... .....
To be answered by those who seed broadcast:
Seed, number of bushels per acre..... .....; value, ...
Seeding, per acre..... ....
To be answered by those who use press or other drills:
Seed, number of bushels per acre..... .....; value, ...
Drilling, per acre..... ....
Hail insurance, if any was carried..... .....
To be answered by those who use self-binders:
Cutting and binding, including cost of twine, per acre..... .....
Shocking, per acre..... .....
Stacking, per acre, if grain is stacked..... .....
Threshing per acre, including cost of all help..... .....
To be answered by those who use headers:
Cutting and stacking per acre..... .....
Threshing, per acre..... .....
Housing or storing, per acre, if grain is stored for any length of time. .....
Average yield, per acre..... .....bushels
Cost of marketing, per acre..... ..... miles, ...
Other expenses, if any..... .....

Total cost per acre for 1893..... $.....

NOTES—If you seed a portion of your wheat broadcast and drill the rest,

please give the results, stating how much seed was used in each case, and the average yield per acre of each. If the two methods produced different qualities of grain, give particulars. Give any other information or experience that will throw light on the question.

Please observe that the cost per acre is asked, and not per bushel.

Do you have data from which you can fill out similar blanks for other years than 1893, if the blanks are sent you? If so, for what years?

These questions and circulars were sent to nearly a thousand different farmers in the State, as well distributed over the State as possible, and also endeavoring to cover the different parts of every county. All told, about 450 replies were received. A few of these were too indefinite and uncertain in their meaning to be used in tabulations, and a larger number were defective in one way or another. Considerable correspondence was had with a view to correcting these defects. Quite a large class evidently made mistakes, such as making absurdly high or low charges for some portion of the work of producing wheat; and to meet such cases the following circular was printed and sent to the farmers whose figures appeared wide of the truth in any respect, with a copy of the figures they had furnished, and such written remarks as were deemed best to call attention to the particular errors in question:

COST OF RAISING WHEAT AGAIN.

DEPARTMENT OF AGRICULTURE AND LABOR, NORTH DAKOTA,
COMMISSIONER'S OFFICE, BISMARCK, FEBRUARY 27, 1894.

DEAR SIR: Your report on the cost of raising wheat in 1893 is received, and a copy is herewith returned, with the request that you re-examine the figures given. The item or items marked in red ink seem to this office incorrect—too high or too low. Please reconsider the matter, and advise me if you believe the figures you formerly gave are correct, and if not please revise them in accordance with your best judgment. I am anxious to make this report such that it will bear any scrutiny and be accepted as reasonably accurate—and uncolored by any political or other considerations. This is and should be the aim of the Statistician; to give the cold facts, without bias.

Your figures, without your name, will be published as you give them, without being "doctored" by me; and I hope you will make them as accurate as possible.

Many that own land leave out the item of rent. This should always be inserted, at what similiar land actually rents for in the neighborhood. If the farmer owns the land he is entitled to charge as rent for interest on his investment, taxes and repairs.

The cost of the work should generally be given at what it is would cost to hire the work done, unless the farmer is convinced that he can do it cheaper than he can hire it done. The prices should be sufficient to pay for time, and reasonable compensation for keeping teams and machinery, and keeping the latter in repair.

Please examine the matter, and return to me at your earliest convenience.

Very respectfully,
NELSON WILLIAMS,
Commissioner of Agriculture and Labor.

In most cases the blanks were duly returned with the corrections made or explanations that justified the unusually high or unusually low charges, as the case might be. The figures of those

who did not make corrections or explanations nor in any way answer the request are not included in the tabulations that follow these remarks.

In quite a number of cases some item was omitted, which omission would invalidate the entire set of answers by the farmer in question unless it could be supplied. In such cases the omission was supplied by this office and marked (c). The items omitted were usually such as rent, amount of seed used, cost of seed, etc. An examination of the tables will show that the figures supplied by this office are as nearly as possible an average for the parts of the State and county from which the report comes, so that the general result would be but very slightly changed by such supplies. In the matter of rent, which was omitted oftener than any other item, this office followed the rule of supplying a rental equal to 12 per cent of the value placed on the land by the farmer—unless some remarks by the farmer or other cause led to the adoption in the individual case of a different amount, which cases are not numerous. When the tabulations were begun it could not be known what percentage of the value of the land the rental would amount to on an average, but it was considered that 12 per cent would not be too much to cover interest on investment, taxes, keeping up repairs, etc. The outcome shows that for 1893 and 1892 12 per cent is a higher rental than the farmers themselves charged, but that it is lower than they charged in 1891. Including the amounts supplied by this office, the charge for rent in 1893 averages 10⅞ per cent of the value placed on the land by the farmers; for 1892, a trifle less than 10½ per cent; and for 1891, 12½ per cent.

In a few cases seed was drilled in on stubble, and in others the ground was disced, which gives a smaller charge, and in a few cases none at all, for preparing the land for seed. In some cases the cost of plowing the land as given is very high, and it sometimes includes breaking the prairie for a first crop. All harrowing the land before seeding is intended to be included in the cost of plowing and preparing the land for seed.

The cost of hail insurance as given is not regarded as very accurate. In the first place, not a sufficient number of returns for insured grain were made to give averages which would be sufficiently representative. For illustration, if only two answers to that question are received from a certain county, one of which gives the cost of hail insurance at 10 cents per acre and the other at 50 cents per acre, the acreage insured by each being equal, it is not very reliable to say that the average cost of hail insurance for that county is 30 cents per acre; yet the averages for this item partake somewhat of the nature of such a supposed case. Another reason for non-reliability is the fact that many farmers insure only a part of their crops, and in answering the question they have divided the total cost of hail insurance by their total acreage in crop and given the result as the average cost of insurance. Of

course the proper way would be to give the number of acres insured, and the actual cost per acre.

For 1893 the answers are tabulated by counties, and the totals and averages given for each county, and also the totals and averages for the entire State. But for 1892 and 1891 the answers from each county were so few that it was not deemed best to separate them.

The answers were separated into four groups, in accordance with the different methods of seeding and harvesting, viz: First, those that seeded with drills and harvested with binders; second, those that seeded broad cast and harvested with binders; third, those that seeded with drills and harvested with headers; and fourth, those that seeded broad cast and harvested with headers.

It will be observed that the binder is almost universally used in the Red River valley and the northern part of the State, while the header is used extensively in the Missouri Slope counties and in the southern parts of the State. The drill is generally used in the older portions of the State that grow the largest acreages. Some differences in the cost of these different methods will be observed, but they are no doubt in part due to the differences in yield of the crops in the different sections where the implements are chiefly used. It would seem that heading is somewhat cheaper than harvesting with a binder, but it may be that such a method would not be practicable in sections where very heavy crops might be expected. On this point the Commissioner can not speak from experience, never having been accustomed to using a header.

It will be observed that the latest circular sent out in connection with this investigation recommends that the different items of work be charged for at the rate it would cost to hire the work done. This seems to the writer to be the fair way, for a man ought to make as good wages when working for himself as for others. There are those, of course, that contend that they can do their own work cheaper than it could be hired done, while others assert that they ought to charge more than customary wages for their own work. Both these arguments are given under the head "What the Farmers Say." But both positions are certainly untenable. No man will work for another for less than the customary wages paid, and there is no good reason why he should be allowed less because he is working for himself. On the other hand, if it costs a farmer less to hire his work done he would be foolish to do it himself. The problem in all production is to accomplish the largest results at the smallest cost. Some have rated the cost of labor too low, and others evidently too high. While it is not very satisfactory to do so, it seems best to consider that the one off-sets the other and that the average is approximately correct. After handling this work for the past year it is now seen where some improvements could be made in the form of the blanks used, so as to secure greater accuracy.

The results herein arrived at for 1893 can be taken as an approximately correct statement of the average cost of raising wheat for that year. But the figures for 1892 and 1891 can not be regarded as so accurately representative as those for 1893, as the answers for those years are not numerous enough to give safe averages. Nevertheless, they are worth something.

It is very desirable that this work be carried on for some years, in order to obtain the average cost for a series of years. The Commissioner can state that there is an immense amount of work involved in such an investigation, and to do the work properly and not neglect other duties of the office, additional help ought to be provided for. It would hardly do to reduce the number of answers received, but the number should rather be increased, and certainly not less than 500 secured each year.

In tabulating the answers each paper is numbered so as to identify the published figures with the original on file in this office, and also to show from the tabular statement itself the county from which it comes. The counties are numbered in their alphabetical order, and the second number in the column headed "No." is the number of the county from which the answer in question comes. To illustrate, the one numbered (23-4) is from Bottineau county (the fourth county in order), and the twenty-third name in this office's list for that county. Likewise, No. (43-24) is the forty-third name on the list for Pembina county. The remarks at the end of the tables, under the heading "What the Farmers Say," are also numbered in the same manner, so that the reader can easily identify any of the remarks with the corresponding figures found in the tables.

It is to be regretted that no time can be taken to go over these tables a second time to test their accuracy. But great care has been exercised in their preparation, and while it is too much to expect that absolutely no errors can be found in them, it is believed there are very few; and as these tables will probably be used in future years, it will certainly be considered a favor if any one discovering an arithmetical error will write to the Commissioner then in charge, pointing it out.

In the remarks of the farmers at the end of this subject inconsistencies will be observed by any one that studies the subject carefully, but it is thought best to give the remarks as they were made.

COST OF PRODUCING WHEAT—1893.

No.	Acres in Farms.	Value Per Acre.	Total Value.	Acres in Wheat.	Rent Per Acre.	Total Rent.	Plowing Per Acre.	Total Cost of Plowing.
1–1	175	$10	$ 1,750	140	$1.00	$ 140.00	$2 50	$ 350.00
2–1	420	10	4,200	240	1.00	240.00	1.50	360.00
5–1	190	12	2 280	130	1.25	162.50	1.25	162.50
10–1	415	10	4,150	300	1.00	300.00	1.34	402.00
15–1	200	4.50	900	135	1.00	135.00	1.10	148.50
16–1	175	15	2.625	125	c1.50	187.50	1.20	150.00
17–1	2,500	15	37,500	1,500	1.50	2,250.00	1.15	1,725.00
18–1	800	15	12.000	600	1.50	900.00	1.50	900.00
20–1	550	15	8,250	460	2.00	920 00	1.40	644.00
21–1	350	10	3,500	200	1.40	280.00	1.35	270.00
22–1	7,000	15	105,000	3,800	2.00	7,600 00	1.25	4,750.00
	a12775	b14.26	a182,155	a7,630	b1.72	a13,115.00	b1.29	a 9,862.00
1–2	250	8	2,000	200	1.25	250.00	1.80	360.00
4–2	260	8	2,080	220	2.00	440.00	1.75	385.00
6–2	300	10	3,000	90	1.00	90.00	1.25	112.50
11–2	200	13	2,600	200	c1.56	312.00	1.50	300.00
12–2	200	10	2,000	100	c1.20	120.00	1 75	175.00
14–2	310	10	3,100	212	c1.20	254.40	1.50	318.00
	a1,520	b9.72	a14,780	a1,022	b1.44	a1,466.40	b1.62	a1,650.50
2–4	300	6	1,800	200	1 50	300.00	2.00	400.00
5–4	237	7.50	1,778	215	1.00	215.00	1.45	311.75
10–4	215	6	1,290	215	c.72	154.80	1.50	322.50
12–4	200	10	2,000	170	1 00	170.00	1.60	272.00
13–4	400	8	3,200	250	.48	120.00	1.33	332.50
14–4	300	8	2,400	250	1.00	250.00	.90	225.00
18–4	65	10	650	65	1.00	65 00	1 60	104.00
21–4	130	6	780	80	1 50	120.00	1.60	128.00
22–4	120	7	840	100	1.00	100.00	1 35	135.00
23–4	350	7	2,450	c200	1.00	200.00	2.00	400.00
	a2,317	b7.42	a17,188	a1,745	b.97	a1,694.80	b1.51	a2,630.75
6–6	465	20	9,300	400	c2.40	960.00	1.50	600.00
11–6	400	15	6,000	360	2.00	720.00	1.25	450.00
14–6	600	25	15,000	450	3.00	1,350.00	1.55	697.50
16–6	630	22	13,860	370	c2.64	976.80	1.00	370.00
19–6	600	20	12,000	400	c2 40	960.00	1.50	600.00
23–6	320	22	7,040	176	c2.64	464.64	1.00	176.00

a Totals for counties. b Averages for counties. c Estimated.

COST OF PRODUCTION OF WHEAT—1893—*Continued.*

No.	Amount Seed Per Acre.	Total Seed Bushels.	Value Per Acre.	Value Per Bushel.	Total Value of Seed.	Cost of Drilling Per Acre.	Total Cost of Drilling	Hail Insurance Per Acre.
1-1	1	140	$0.50	$0.50	$ 70.00	$0.40	$ 56.00	$0.00
2-1	1.125	270	0.70	0 622	168.00	0.25	60.00	.....
5-1	1 25	162	0.68	0.544	88.40	0.25	32.50	.....
10-1	1	300	0.70	0.70	210.00	0.45	135.00	25
15-1	1	135	0 60	0.60	81.00	0.26	35.10	30
16-1	1 125	141	0.675	0.60	84.37	0.25	31.25	.....
17-1	1 25	1,875	0.75	0.60	1,125.00	0.30	450.00	15
18-1	1.33	800	0.80	0.60	480.00	0.40	240.00	28
20-1	1.25	575	0.75	0.60	345.00	0.30	138.00	19
21-1	1.25	250	0.75	0.60	150.00	0.50	100.00	25
22-1	1.25	4,750	0.80	0.64	3,040.00	0.40	1,520.00	20
	b1.23	a9,398	b766	b622	a5,841.77	b367	a2,797.85	b201
1-2	1	200	0.55	0.55	110.00	0.45	90.00	.....
4-2	1	220	0.60	0.60	132.00	0.50	110.00	.....
6-2	1.20	108	0.55	0.458	49.50	0.45	40.50	.....
11-2	1.125	225	0.73	0.649	146.00	0.40	80.00	.....
12-2	1.25	125	0 80	0 64	80.00	0.20	20.00	.....
14-2	1.50	318	0.75	0.50	159.00	0.35	74.20	.....
	b1.17	a1,196	b662	b566	a676.50	b406	a414.70	.....
2-4	1.25	250	0.65	0.52	130.00	0.50	100.00	.....
5-4	1.125	242	0.60	0.533	129.00	0.40	86.00	.....
10-4	.75	161	0.38	0.507	81.70	0.20	43.00	.....
12-4	1	180	0.45	0.45	76.50	0.50	85.00	.....
13-4	c1.25	313	0.65	0.52	162.50	0.12	30.00	.....
14-4	1.125	281	0.52	0.462	130.00	0.25	62.50	.....
18-4	1	65	0.45	0.45	29.25	0.50	32.50	.....
21-4	1.75	140	0 90	0.514	72.00	0 20	16.00	.....
22-4	1.125	112	0.63	0.56	63.00	0.25	25.00	.....
23-4	1.50	300	1.00	0.667	200.00	0.30	60.00	.....
	b1 17	a2,034	b615	b528	a1,073.95	b309	a540.00	.....
6-6	1	400	0.60	0.60	240.00	0.50	200.00	.....
11-6	1.125	405	0.70	0.622	252.00	0 35	126.00	.....
14-6	1.25	562	0.75	0 60	337.50	0.60	270.00	.....
16-6	1	370	0.60	0.60	222.00	0.25	92.50	.....
19-6	1	400	0.60	0 60	240.00	0 30	120.00	.....
23-6	1 50	264	0.78	0.52	137.28	0 49	86 24	.....

aTotal for counties. bAverage for counties. cEstimated.

COST OF PRODUCING WHEAT FOR 1893.—*Continued.*

No.	Total Hail Insurance.	Cutting & Binding—Per Acre.	Total Cost of Cutting and Binding.	Shocking—Per Acre.	Total Cost of Shocking.	Stacking—Per Acre.	Total Cost of Stacking.
1-1	$.....	$ 70	$ 98 00	$ 0 30	$ 42 00	$	$.....
2-1	.....	60	144 00	20	48 00	.....	.....
5-1	.....	40	52 00	13	16 90	.....	.....
10-1	75 00	42	126 00	09	27 00	31	93 00
15-1	40 50	47	63 45	10	13 50	13	17 50
16-1	.....	35	43 75	10	12 50	.....	.....
17-1	225 00	60	900 00	15	225 00	.....	.....
18-1	168 00	80	480 00	20	120 00	.....	.....
20-1	87 40	88	404 80	20	92 00	.....	.....
21-1	50 00	75	150 00	20	40 00	375	75 00
22-1	760 00	75	2,850 00	25	950 00	.....	.....
	a1,405 90	b696	a5,312 00	b208	a1,586 90	b292	a185 50
1-2	.....	1 00	200 00	25	50 00	.....	.....
4-2	.....	1 25	275 00	25	55 00	.....	.....
6-2	.....	75	67 50	25	22 50	.....	.....
11-2	.....	80	160 00	25	50 00	.....	.....
12-2	.....	1 00	100 00	15	15 00	1 00	100 00
14-2	.....	1 00	212 00	08	16 96	.....	.....
	.....	b993	a1,014 50	b205	a209 46	b1 00	a100 00
2-4	.....	90	180 00	15	30 00	.....	.....
5-4	.....	77	165 55	20	43 00	625	134 38
10-4	.....	50	107 50	15	32 25	.....	.....
12-4	.....	1 00	170 00	17	28 90	.....	.....
13-4	.....	80	200 00	17	42 50	.....	.....
14-4	.....	48	120 00	135	33 75	... .	.....
18-4	.....	1 00	65 00	17	11 05	.....	.....
21-4	... .	60	48 00	10	8 00	20	16 00
22-4	.....	76	76 00	115	11 50	.....	.....
23-4	.....	50	100 00	20	40 00	1 00	200 00
	.....	b706	a1,232 05	b161	a280 95	b708	a350 38
6-6	.....	85	340 00	18	72 00	.....	.....
11-6	.....	60	216 00	15	54 00	.....	.....
14-6	.....	49	220 50	17	76 50	.....	.....
16-6	.....	1 00	370 00	15	55 50	.....	.....
19-6	.....	85	340 00	25	100 00	.....	.....
23-6	.....	78	137 28	12	21 12	61	107 36

a Total for counties. b Averages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

No.	Threshing—Per Acre.	Total Cost of Threshing.	Storing—Per Acre.	Total Cost of Storing.	Average Yield—Per Acre.	Total Product—Bushels.	Miles to Market.
1-1	$ 90	$ 126 00	$.....	$.....	9	1,260	11
2-1	1 05	252 00	.....	.....	15	3,600	.5
5-1	1 00	130 00	.....	.....	11	1,430	5
10-1	40	120 00	.....	.....	6.33	1,900	4
15-1	49	66 15	.....	.....	8	1,080	4
16-1	50	62 50	.....	.....	5	625	3
17-1	70	1,050 00	.....	.....	10	15.000	7
18-1	85	510 00	0 18	108 00	9	5,400	8
20-1	80	368 00	.....	.....	10	4 600	3.5
21-1	80	160 00	10	20 00	10	2,000	8
22-1	70	2,660 00	.....	.....	7.5	28,500	5
	b721	a5,504 65	b 16	a128 00	b8.57	a65,395	b5.50
1-2	1 20	240 00	.....	.....	12	2,400	4
4-2	1 21	266 20	15	33 00	11	2,420	5
6-2	1 25	112 50	.....	.....	13	1,170	2
11-2	1 60	320 00	.....	.....	16	3,200	5
12-2	1 15	115 00	.....	.....	18	1,800	9
14-2	1 80	381 60	20	42 40	20	4,240	7
	b1 404	a1,435 30	b.175	a75 40	b14.90	a15,230	b5.64
2-4	65	130 00	.....	.....	4.5	900	8
5-4	86	184 90	.....	.....	8.3	1,792	6
10-4	70	150 50	.....	.....	10	2,150	10
12-4	1 00	170 00	.....	.....	12	2,040	7
13-4	1 60	400 00	.....	.....	10	2,500	3.5
14-4	95	237 50	.....	.....	10	2,500	7.5
18-4	1 00	65 00	.....	.....	10	650	5.5
21-4	70	56 00	.....	.....	7.5	600	2.5
22-4	80	80 00	15	15 00	10	1,000	4
23-4	1 00	200 00	.....	.....	10	2,000	1.5
	b 959	a1,673 90	b15	a15 00	b9.24	a16,132	b5.78
6-6	1 28	512 00	.....	.....	12	4,800	4
11-6	1 40	504 00	.....	.....	12	4 320	5
14-6	1 00	450 00	.....	.....	10	4,500	1
16-6	1 25	462 50	.....	.....	13.25	4,903	5
19-6	1 00	400 00	.....	.....	10	4,000	7
23-6	50	103 84	.....	.....	14.78	2,601	2.5

aTotals for counties. bAverages for counties. cEstimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

No.	Bush'l-Miles —Product.	Cost to Market Per Acre.	Total Cost to Market Crop.	Other Exps. Per Acre.	Total Other Expenses.	Total Cost Per Acre.	Total Cost of Crop.	Cost Per Bushel
1-1	13,860	$0.45	$ 63 00	$...	$	$ 6.75	$ 945 00	$ .75
2-1	1,800	.10	24 00	....	....	5.40	1,296 00	.36
5-1	7,150	.22	28 60	....	....	5.18	673 40	.471
10-1	7,600	.15	45 00	....	....	5.11	1,533 00	.807
15-1	4,320	.20	27 00	....	....	4.65	627 75	.581
16-1	1,875	.15	18 75	....	....	4.725	590 62	.945
17-1	105,000	.30	450 00	....	....	5.60	8,400 00	.56
18-1	43 200	.36	216 00	....	....	6.87	4,122 00	.763
20-1	16.100	.25	115 00	....	....	6.77	3,114 20	.677
21-1	16,000	.50	100 00	....	....	6.975	1,395 00	.697
22-1	142,500	.225	855 00	....	....	6.575	24,985 00	.877
	a359,405	b 255	a1942 35	....	....	b6.249	a47,681 97	b.729
1-2	9,600	.25	50 00	....	....	6.75	1,350 00	.522
4-2	12.100	.28	61 60	....	....	7.99	1,757 80	.726
6-2	2,340	.25	22 50	....	....	5.75	519 30	.442
11-2	16,000	.64	128 00	....	....	7.48	1.496 00	.467
12-2	16,200	1.25	125 00	....	....	8.50	850 00	.472
14-2	29,680	.60	127 20	....	....	7.48	1,585 76	.374
	a85,920	b.503	a514 30	....	....	b7.396	a7 558 86	b.496
2-4	7,200	.225	45 00	...	....	6.575	1,315 00	1.461
5-4	10,752	.24	51 60	....	....	6.145	1,321 17	.737
10-4	21,500	.32	68 80	*.05	10.75	4.52	971 80	.452
12-4	14,280	.36	61 20	....	....	6.08	1,033 60	.507
13-4	8,750	.30	75 00	....	....	5.45	1,362 50	.545
14-4	18,750	.30	75 00	....	....	4.533	1,133 25	.453
18-4	3,575	.30	19 50	....	....	6.02	391 30	.602
21-4	1,500	.15	12 00	....	....	5.95	476 00	.793
22-4	4,000	.25	25 00	....	....	5.305	530 50	.53
23-4	3,000	.15	30 00	....	....	7.15	1,430 00	.715
	a93,307	b 265	a463 10	b.05	a 10.75	b5.711	a9,965 12	b.618
6-6	19,200	.36	144 00	....	....	7.67	3,068 00	.639
11-6	21,600	.25	90 00	....	....	6.70	2 412 00	.558
14-6	4,500	.16	72 00	....	....	7.72	3,474 00	.772
16-6	24,515	.50	185 00	....	....	7.39	2,734 30	.558
19-6	28,000	.40	160 00	....	....	7.30	2,920 00	.73
23-6	6,502	.29	51 04	....	....	7.30	1,284 80	.494

aTotals for counties. bAverages for counties. *Incidentals.

COST OF PRODUCING WHEAT—1893—*Continued.*

No.	Acres in Farm.	Value per Acre.	Total Value.	Acres in Wheat.	Rent per Acre.	Total Rent.	Plowing per Acre.	Total Cost of Plowing.
25-6	250	$15	$ 3,750	210	$ 1.50	$ 315.00	$ 2.55	$ 535 50
28-6	3 500	17	59,500	1,700	1 25	2,125 00	1.00	1,700.00
32-6	350	20	7,000	250	1.75	437.50	1.50	375.00
33-6	1,400	25	35,000	950	1.50	1,425 00	1.25	1,187.50
37-6	3,000	25	75,000	2,400	3.00	7,200.00	.50	1,200.00
38-6	1,100	30	33,000	800	2.00	1,600.00	1.75	1,400.00
39-6	460	22	10.120	320	2.00	640.00	1.25	400.00
40-6	640	20	12,800	500	2.00	1,000.00	1.00	500.00
41-6	480	13 60	6,528	320	1.65	528.00	1.12	358.40
45-6	320	10	3,200	160	c1.20	192.00	1.25	200.00
51-6	688	20	13,760	566	2.00	1,132.00	1.15	650.90
53-6	290	20	5,800	160	1.00	160.00	1.50	240.00
	a15493	b21.21	a328,658	a10,492	b2.115	a 22,185.94	b1.11	a11,640.80
2-7	240	5	1,200	200	2.00	400 00	1.50	300.00
12-7	c100	4	400	60	1.00	60.00	1.50	90.00
13-7	126	5	630	96.	.60	57.60	1.50	144.00
17-7	600	12.50	7,500	500	1.50	750.00	1.50	750 00
	a1,066	b 9.13	a9,730	a856	b1.48	a1,267.60	b1.50	a1,284.00
5-8	275	7	1,925	200	1.00	200.00	1.50	300.00
17-8	650	10	6,500	300	1.00	300.00	2.00	600.00
21-8	640	10	6,400	425	1.70	722.50	1.60	680.00
25-8	180	4	720	103	.75	77.25	1.66	170.98
	a1,745	b8.90	a15,545	a1,028	b1.26	a1,299.75	b1.70	a1,750.98
7-9	600	10	6,000	400	1.00	400 00	2.00	800.00
16-9	225	5	1,125	140	.75	105.00	1.25	175.00
	a825	b8.64	a7,125	a540	b 94	a505.00	b1.81	a975.00
6-10	110	10	1,100	70	1 00	70.00	2.00	140.00
12-10	100	10	1.000	60	.50	30.00	1.75	105.00
18-10	110	6.50	715	80	.75	60.00	1.90	152.00
	a320	b8.80	a2,815	a210	b.76	a160.00	b1.89	a397.00
12-11	480	20	9.600	440	1.60	704.00	1.60	704.00
23-11	960	15	14,400	450	2.00	900.00	1 50	675.00
	a1,440	b16.70	a24,000	a890	b1.80	a1,604 00	b1.55	a1,379.00

a Totals for counties. b Averages for counties. c Estimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

No.	Am't Seed Pr Acre.	Total Seed Bushels.	Value Seed Per Acre.	Value Seed Per Bushel.	Total Value of Seed.	Cost of Drilling Per Acre.	Total Cost of Drilling.	Hail Insurance Per Acre.
25-6	1.25	262	$ .60	$ .48	$ 126 00	$ .30	$ 63 00	.....
28-6	1.25	2,125	.85	.68	1,445 00	.15	255 00	.25
32-6	1.125	281	.70	.622	175 00	.40	100 00	.....
33-6	1	950	.60	.60	570 00	.30	285 00	.....
37-6	1.125	2,700	.75	.667	1,800 00	.10	240 00	.....
38-6	1.50	1,200	.90	.60	720 00	.40	320 00	.24
39-6	1.25	400	.75	.60	240 00	.35	112 00	.....
40-6	1.25	625	.75	.60	375 00	.25	125 00	.....
41-6	1.50	480	.90	.60	288 00	.20	64 00	.....
45-6	1	160	.54	.54	86 40	.25	40 00	.....
51-6	1	566	.60	.60	339 60	.30	169 80	.15
53-6	1.25	200	.625	.50	100 00	.60	96 00	.....
	b1.177	a12,350	b.763	b.623	a7,693 78	b.263	a2,764 54	b.229
2-7	1.125	225	.60	.533	120 00	.30	60 00	.....
12-7	1.25	75	.625	.50	37 50	.50	30 00	.....
13-7	1.125	108	.62	.551	59 52	.28	26 88	.....
17-7	1.50	750	.75	.50	375 00	.40	200 00	.....
	b1.353	a1,158	b.692	b.511	a592 02	b.37	a316 88	.....
5-8	1	200	.60	.60	120 00	.35	70 00	.....
17-8	1	300	.60	.60	180 00	.40	120 00	.....
21-8	1.25	531	.75	.60	318 75	.30	127 50	.....
25-8	1	103	.60	.60	61 80	.40	41 20	.....
	b1.103	a1,134	b.662	b.60	a680 55	b.349	a358 70	.....
7-9	1.25	500	.75	.60	300 00	.30	120 00	.38
16-9	1.125	158	.50	.444	70 00	.25	35 00	.....
	b1.219	a658	b.685	b.563	a370 00	b.287	a155 00	b.38
6-10	1	70	.45	.45	31 50	.50	35 00	.....
12-10	1	60	.50	.50	30 00	.35	21 00	.....
18-10	1	80	.43	.43	34 40	.25	20 00	.....
	b1.000	a210	b.457	b.457	b95 90	b.362	b76 00	.....
12-11	1	440	.60	.60	264 00	.40	176 00	.....
23-11	1.25	562	.80	.64	360 00	.40	180 00	.....
	b1.126	a1,002	b.701	b.623	a624 00	b.40	a356 00	.....

aTotals for counties. bAverages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

No.	Total Cost of Hail Insurance.	Cutting Per Acre.	Total Cost of Cutting.	Shocking Per Acre.	Total Cost of Shocking.	Stacking Per Acre.	Total Cost of Stacking.
25-6	.....	$ 80	$ 168 00	$ 14	$ 29 40	.....	.....
28-6	425 00	37	629 00	15	255 00	.....	.....
32-6	.....	55	137 50	10	25 00	.....	.....
33-6	.....	90	855 00	20	190 00	.....	.....
37-6	.....	50	1,200 00	35	840 00	.....	.....
38-6	192 00	75	600 00	25	200 00	.....	.....
39-6	.....	85	272 00	16	51 20	.....	.....
40-6	.....	60	300 00	15	75 00	.....	.....
41-6	.....	55	176 00	20	64 00	.....	.....
45-6	.....	75	120 00	15	24 00	.....	.....
51-6	84 90	95	537 70	15	84 90	.....	.....
53-6	.....	1 00	160 00	25	40 00	.....	.....
	a701 90	b646	a6,778 98	b215	a2,257 62	$b0.61	a107 36
2-7	.....	1 00	200 00	25	50 00	.....	.....
12-7	.....	75	45 00	25	15 00	60	36 00
13-7	.....	70	67 20	20	19 20	.....	.....
17-7	.....	1 00	500 00	15	75 00	75	375 00
	.....	b949	a812 20	b186	a159 20	b734	a411 00
5-8	.....	85	170 00	15	30 00	.....	.....
17-8	.....	70	210 00	15	45 00	40	120 00
21-8	.....	1 00	425 00	.....	.....	.....	.....
25-8	.....	85	87 55	12	12 36	60	61 80
	.....	b868	a892 55	b145	a87 36	b451	a181 80
7-9	152 00	60	240 00	15	60 00	.....	.....
16-9	.....	1 00	140 00	20	28 00	.....	.....
	a152 00	b704	a380 00	b163	a88 00	.....	.....
6-10	.....	1 25	87 50	25	17 50	50	35 00
12-10	.....	1 05	63 00	20	12 00	40	24 00
18-10	.....	1 00	80 00	15	12 00	25	20 00
	.....	b1 098	a230 50	b198	a41 50	b376	a79 00
12-11	.....	70	308 00	17	74 80	.....	.....
23-11	... .	70	315 00	20	90 00	.....	.....
		b700	a623 00	b185	a164 80		

aTotals for counties. bAverages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

No.	Threshing Per Acre.	Total Cost of Threshing.	Storing Per Acre.	Total Cost of Storing.	Average Yield Per Acre.	Total Product Bushels.	Miles to Market.
25-6	$ 89	$ 186 90	.....	.....	9	1,890	2
28-6	75	1,275 00	.....	.....	11	18,700	6
32-6	1 00	250 00	$ 0.25	$ 62 50	10	2.500	2
33-6	1 00	950 00	10	95 00	10	9,500	5
37-6	75	1,800 00	10	240 00	15	36,000	1.5
38-6	1 25	1,000 00	32	256 00	16.25	13,000	1.5
39-6	1 00	320 00	.....	.....	10	3,200	4
40-6	1 00	500 00	10	50 00	10	5,000	3.5
41-6	1 15	368 00	15	48 00	8	2,560	7.5
45-6	2 00	320 00	.....	.....	20	3,200	4
51-6	1 00	566 00	.....	.....	10	5,660	2
53-6	1 25	200 00	.....	.....	10	1,600	2
	b969	a10,168 24	b144	a751 50	b12.19	a127,934	b3.31
2-7	2 00	400 00	18	36 00	18	3 600	21
12-7	1 50	90 00	20	12 00	20	1,200	12
13-7	1 56	149 76	.....	.....	19	1,824	12
17-7	1 20	600 00	07	35 00	15	7,500	25
	b1 448	a1,239 76	b109	a83 00	b16.5	a14,124	b21.20
5-8	60	120 00	.....	.....	6	1,200	3
17-8	53	159 00	05	15 00	7	2,100	1.5
21-8	70	297 50	21	89 25	7	2,975	1.5
25-8	1 20	123 60	.....	.....	8.7	896	5
	b681	a700 10	b144	a104 25	b6.98	a7,171	b2.19
7-9	2 00	800 00	.....	.....	18	7,200	4
16-9	1 00	140 00	.....	.....	11.25	1,575	12
	b1 741	a940 00	.....	.....	b16.25	a8,775	b5.44
6-10	1 00	70 00	.....	.....	13	910	50
12-10	90	54 00	.....	.....	9	540	24
18-10	65	52 00	.....	.....	10	800	25
	b838	a176 00	.....	.....	b10.71	a2,250	b34.87
12-11	1 60	704 00	.....	.....	16	7,040	1
23-11	1 50	675 00	.....	.....	14	6,300	4
	b1.549	a1,379.00			b14.99	a13,340	b2.42

aTota's for counties. bAverages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

No.	Bushels-Miles, Product.	Cost to Market Per Acre.	Total Cost of Marketing Crop.	Other Expenses Per Acre.	Total Other Expenses.	Total Cost Per Acre.	Total Cost of Crop.	Cost Per Bu.
25–6	3,780	$.20	$ 42.00	. . . .	. . . . .	$6.98	$1,465.80	$.777
28–6	112,200	.176	299 20	. . . .	. . . . .	4.946	8,408.20	.45
32–6	5,000	.10	25.00	. . . .	. . . . .	6.35	1,587.50	.635
33–6	47,500	.30	285.00	. . . .	. . . . .	6.15	5,842.50	.615
37–6	54,000	.10	240.00	*$.50	$1,200.00	6 65	15,960.00	.443
38–6	19,500	.32	256.00	. . . .	. . . . .	8.18	6,544.00	.503
39–6	12,800	.35	112.00	. . . .	. . . . .	6.71	2,147.20	.671
40–6	17,500	.30	150.00	. . . .	. . . . .	6.15	3,075.00	.615
41–6	19,200	.15	48.00	*.10	32.00	6.17	1,974.40	.771
45–6	12 800	.35	56.00	. . . .	. . . . .	6 49	1,038.40	.324
51–6	11.320	.20	113.20	. . . .	. . . . .	6.50	3,679 00	.65
53–6	3,200	.20	32.00	. . . .	. . . . .	6.425	1 028.00	.645
	a423,117	b.225	a2,360.44	b.453	a1 232.00	b6.539	a68,643.10	b.537
2–7	75,600	.90	180 00	. . . .	. . . . .	8.73	1,746.00	.485
12–7	14,400	.25	15.00	*.50	30.00	7.675	460.50	.383
13–7	21,888	.95	91.20	. . . .	. . . . .	6.41	615.36	.337
17–7	187,500	.90	450 00	. . . .	. . . . .	8.22	4,110.00	.548
	a299,388	b.860	a736.20	b.50	a30.00	b8.098	a6,931.86	b 491
5–8	3,600	.15	30.00	. . . .	. . . . .	5.20	1.040.00	.867
17–8	3,150	.10	30.00	. . . .	. . . . .	5 93	1,779.00	.847
21–8	4.462	.10	42.50	. . . .	. . . . .	6.36	2,703.00	.909
25–8	4,480	.175	18.02	. . . .	. . . . .	6.355	654.56	.73
	a15,692	b.117	a120.52	. . . .	. . . . .	b6.008	a6,176.56	b.861
7–9	28,800	.54	216.00	. . . .	. . . . .	7.720	3,088.00	.429
16–9	18,900	.56	78.40	. . . .	. . . . .	5.51	771.40	.49
	a47,700	b.545	a294.40	. . . .	. . . . .	b7.147	a3,859.40	b.440
6–10	45.500	.91	63.70	. . . .	. . . . .	7.86	550.20	.605
12–10	12,960	.90	54.00	. . . .	. . . . .	6.55	393.00	.728
18–10	20,000	.50	40.00	. . . .	. . . . .	5.88	470.40	.588
	a78,460	b.751	a157.70	. . . .	. . . . .	b6.731	a1,413.60	b.628
12–11	7,040	.18	79.20	. . . .	. . . . .	6.85	3,014.00	.428
23–11	25,200	.28	126.00	. . . .	. . . . .	7.38	3,321.00	.527
	a32,240	b.231	a205.20	. . . . .	. . . . .	b7.118	a6,335.00	b.475

a Totals for counties. b Averages for counties. *Wear and tear.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

No.	Acres in Farm.	Value Per Acre.	Total Value.	Acres in Wheat.	Rent Per Acre.	Total Rent.	Plowing Per Acre.	Total Cost of Plowing.
1–12	525	$20.00	$ 10,500	400	$2.00	$ 800.00	$1.25	$ 500.00
2–12	540	15.00	8,100	400	2.50	1,000.00	1.50	600.00
4–12	4,000	25.00	100,000	2,500	3.00	7,500.00	1.50	3,750.00
5–12	480	15.00	7,200	320	1.50	480.00	1.75	560.00
7–12	320	c16.00	5,120	230	2.00	460.00	1.25	287.50
14–12	1,120	20.00	22,400	840	2.40	2,016.00	1.40	1,176.00
15–12	2,400	25.00	60,000	1,800	c3.00	5,400.00	1.00	1,800.00
16–12	200	40.00	8,000	175	2.00	350.00	1.50	262.50
21–12	320	30.00	9,600	200	c3.60	720.00	1.20	240.00
26–12	145	25.00	3,625	90	2.00	180.00	2.00	180.00
37–12	180	20.00	3,600	180	1.50	270.00	1.25	225.00
38–12	10,000	15.00	150,000	8,000	c1.80	14,400.00	1.50	12,000.00
40–12	700	25.00	17,500	450	2.00	900.00	2.00	900.00
42–12	480	15.00	7,200	350	2.00	700.00	1.60	560.00
46–12	90	15 00	1,350	c80	c1.80	144.00	2.00	160.00
50–12	427	18.00	7,686	312	1.97	614.64	1.40	436.80
	a21927	b19.24	a421,881	a16 327	b2.201	a35,934.64	b1.448	a23637.80
2–13	5,000	10.00	50,000	3,000	1.00	3,000.00	1.25	3,750.00
3–13	225	15.00	3,375	150	2.00	300.00	1.50	225.00
4–13	400	12.00	4,800	240	1.00	240.00	1.25	300.00
7–13	960	15.00	14,400	500	2.25	1,125.00	1.50	750.00
8–13	130	5 00	650	55	c.60	33.00	1.60	88.00
9–13	400	12 50	5,000	220	c1.50	330.00	1.65	363.00
12–13	640	15.00	9,600	230	1.75	402.50	2.00	460.00
18–13	320	10.00	3,200	200	c1.20	240.00	1.75	350.00
20–13	100	5.00	500	70	c.60	42.00	1.50	105.00
22–13	140	13.50	1,890	55	c1.60	88.00	1.50	82.50
24–13	400	12.50	5,000	190	1.00	190.00	1.75	332.50
	a8,715	b11.29	a98,415	a4,910	b1.220	a5,990.50	b1.386	a6,806.00
10–14	68	5.00	340	48	c.60	28.80	1.50	72.00
12–14	245	10.00	2,450	190	1.00	190.00	1.25	237.50
	a313	b8.91	a2,790	a238	b.919	a218.80	b1.30	a309.50
1–15	....	.....	....	c100	.75	75.00	1.00	100.00
9–15	100	10.00	1,000	80	1.00	80.00	1.40	112.00
13–15	c300	10.00	3,000	208	1.50	312.00	1.25	260.00
16–15	120	10.00	1,200	60	1.00	60.00	1.70	102.00
	a520	b10.00	a5,200	a448	b1.176	a527.00	b1.281	a574.00

a Totals for counties. b Averages for counties. c Estimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

No.	Amount Seed Per Acre.	Total Seed—Bushels.	Value Seed Per Acre.	Value of Seed Per Bushel.	Total Value of Seed.	Cost of Drilling Per Acre.	Total Cost of Drilling.	Hail Ins. Per Acre.
1-12	1.25	500	$ .75	$ .60	$ 300.00	$.25	$ 100.00	$ .09
2-12	1.25	500	.34	.672	336.00	1.00	400.00	.....
4-12	1.25	3,125	.75	.60	1,875.00	.30	750.00	.....
5-12	1.60	512	c.80	.50	256.00	.25	80.00	.....
7-12	1.25	288	.70	.56	161.00	.30	69.00	.....
14-12	1.00	840	.75	.75	630.00	.20	168.00	.....
15-12	1.25	2,250	.75	.60	1,350.00	.08	144.00	.....
16-12	1.125	197	.70	.622	122.50	.20	35.00	.....
21-12	1.25	250	.70	.56	140.00	.35	70.00	.24
26-12	1.00	90	.50	.50	45.00	.40	36.00	.30
37-12	1.25	225	.75	.60	135.00	.25	45.00	.....
38-12	1.25	10,000	.70	.56	5,600.00	.50	4,000.00	.....
40-12	1.00	450	.65	.65	292.50	1.00	450.00	.....
42-12	1.50	525	.90	.60	315.00	.50	175.00	.....
46-12	1.25	100	.58	.464	46.40	.50	40.00	.....
50-12	1.25	390	.63	.504	196.56	.20	62.40	.11
	b1.240	a20242	b.723	b.583	a11,800.96	b.406	a6,624.40	b.145
2-13	1.125	3,375	.85	.755	2,550.00	.40	1.200.00	.....
3-13	1.25	187	.75	.60	112.50	.37	55.50	.....
4-13	1.25	300	.69	.552	165.60	.25	60.00	.....
7-13	1.00	500	.60	.60	300.00	.30	150.00	.....
8-13	1.10	61	.65	.591	35.75	.35	19.25	.....
9-13	1.125	247	.65	.578	143.00	.50	110.00	.....
12-13	1.50	345	.85	.567	195.50	.40	92.00	.....
18-13	1.25	250	.675	.54	135.00	.30	60.00	.....
20-13	1 125	79	.56	.498	39.20	.40	28.00	.....
22-13	1.25	69	.75	.60	41.25	.20	11.00	.....
24-13	1.125	214	.68	.604	129.20	.40	76.00	.....
	b1.146	a5,627	b.784	b.684	a3,847.00	b.379	a1,861.75	.....
10-14	1.25	60	.65	.52	31.20	.35	16.80	.....
12-14	1.00	190	.50	.50	95.00	.20	38.00	.....
	b1.05	a250	b.530	b.505	a126.20	b.230	a54.80	.....
1-15	1.00	100	.60	.60	60.00	.30	30.00	.15
9-15	1.00	80	.60	.60	48.00	.30	24.00	.10
13-15	1.00	208	.55	.55	114.40	.50	104.00	.....
16-15	1.00	60	.60	.60	36.00	.35	21.00	.....
	b1.00	a448	b.577	b.577	a258.40	b.400	a179.00	b.128

a Totals for counties. b Averages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

No.	Total Cost of Hail Insurance.	Cutting Per Acre.	Total Cost of Cutting.	Shocking Per Acre.	Total Cost of Shocking.	Stacking Per Acre	Total Cost of Stacking.
1–12	$ 36.00	$ 62	$ 248.00	$0.15	$ 60.00	$0 40	$160.00
2–12	.....	1.00	400.00	20	80.00	.... .	.....
4–12	.....	70	1,750.00	30	750.00	. ....	.....
5–12	.....	50	160.00	10	32.00	.... .	.....
7–12	.....	1.00	230.00	25	57.50	. ....	.....
14–12	.....	60	504.00	15	126.00	.... .	.....
15–12	.....	30	540.00	20	360.00	. ....	.....
16–12	.....	55	96.25	15	26.25	.... .	.....
21–12	48.00	69	138.00	10	20.00	. ....	.....
26–12	27.00	70	63.00	18	16.20	50	45.00
37–12	.....	75	135.00	25	45.00	. ....	.....
38–12	.....	45	3,600.00	16	1,280.00	.... .	.....
40–12	.....	1.25	562.50	20	90.00	.... .	.....
42–12	.....	1.25	437.50	25	87.50	. ....	.....
46–12	.....	1.00	80.00	20	16.00	.... .	.....
50–12	34.32	70	218.40	15	46.80	08	24.96
	a145.32	b561	a9,162.65	b189	a3,093.25	b287	a229.96
2–13	.....	60	1,800.00	30	900.00	.... .	.....
3–13	.....	1.00	150.00	25	37.50	. ....	.....
4–13	.....	50	120.00	20	48.00	.... .	.....
7–13	.....	80	400.00	18	90.00	. ....	.....
8–13	.....	75	41.25	25	13.75	.... .	.....
9–13	.....	1.00	220.00	25	55.00	. ....	.....
12–13	.....	75	172.50	15	34.50	.... .	.....
18–13	.....	64	128.00	19	38.00	. ....	.....
20–13	.....	1.00	70.00	15	10.50	50	35.00
22–13	.....	1.10	60.50	18	9.90	.... .	.....
24–13	.....	80	152.00	25	47.50	. ....	.....
	.....	b675	a3,314.25	b262	a1,284.65	b50	b35.00
10–14	.....	1.00	48.00	20	9.60	.... .	.....
12–14	.....	50	95.00	10	19.00	40	76.00
	.....	b601	a143.00	b120	a28.60	b40	a76.00
1–15	15.00	75	75.00	15	15.00	40	40.00
9–15	8.00	70	56.00	12	9.60	60	48.00
13–15	.....	70	145.60	15	31.20	.... .	.....
16–15	.....	625	37.50	20	12.00	50	30.00
	a23.00	b701	a314.10	b151	a67.80	b492	a118 00

aTotals for counties. bAverages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

No.	Threshing Per Acre.	Total Cost of Threshing.	Storing Per Acre.	Total Cost of Storing.	Average Yield Per Acre.	Total Product—Bushels.	Miles to Market.
1–12	$ 75	$ 300.00	.....	.....	15	6,000	2
2–12	1.30	520.00	.....	.....	13	5,200	2
4–12	2.00	5,000.00	....	.....	15	37,500	.....
5–12	80	256.00	.....	.....	8	2,560	8
7–12	1.70	391.00	.....	.....	17	3 910	2.5
14–12	1.28	1.075.20	... .	.....	16	13,440	1.5
15–12	1.00	1,800.00	.....	.....	12	21,600	2
16–12	1.50	262.50	.....	.....	15	2,625	2
21–12	1.80	360.00	$0.10	$ 20.00	16	3,200	6
26–12	1.00	90.00	.....	.....	16	1,440	3.5
37–12	1.50	270.00	.....	.....	14	2,520	1
38–12	1.22	9,760.00	.....	.....	15.25	122,000	2
40–12	1.50	675.00	.....	.....	12	5,400	10
42–12	75	262.50	.....	.....	7.5	2,625	5.5
46–12	1.50	120.00	.....	.....	14	1.120	c3
50–12	775	241.80	08	24.96	15.5	4,836	5
	b1.310	a21,384.00	b088	a44.96	b14.45	a235.976	b2.46
2–13	1.20	3,600.00	.....	.....	12	36,000	2
3–13	80	120.00	08	12.00	8	1,200	3
4–13	90	216.00	.....	.....	10	2.400	5
7–13	1.30	650.00	.....	.....	13.5	6,750	10
8–13	1.10	60.50	.....	.....	11	605	13
9–13	1.70	374.00	20	44.00	17	3,740	9
12–13	1.43	328.90	.....	.....	13	2,990	4
18–13	1.43	286.00	.....	.....	13	2,600	4
20–13	80	56.00	.....	.....	12	840	10
22–13	1.08	59.40	.....	.....	10	550	13
24–13	1.68	319.20	.....	.....	16	3,040	6
	b1.236	a6,070.00	b151	a56.00	b12.37	a60,715	b4.16
10–14	1.03	49.44	.....	.....	8.75	420	7
12–14	50	95.00	.....	.....	5	950	4
	b607	a144.44	.....	.....	b5.76	a1,370	b4.92
1–15	40	40.00	.....	.....	6	600	10
9–15	24	19.20	.....	.....	3	240	5
13–15	1.65	343.20	.....	.....	15	3,120	2
16–15	50	30.00	.....	.....	6	360	9
	b965	a432.40	.....		b9.64	a4,320	b3.86

a Totals for counties. b Averages for counties. c Estimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

No.	Bushel—Miles—Product.	Cost to Market—Per Acre.	Total Cost to Market Crop.	Other Expn's Per Acr	Total Other Expens's.	Tot'l Cost Per Acre.	Total Cost of Crop.	Cost Per Bushel.
1–12	12,000	$0.15	$ 60 00	$...	$	$6 41	$ 2,564 00	$0 428
2–12	10,400	26	104 00	....	.....	8 60	3 440 00	662
4–12	.....	†	.....	*65	1625 00	9 20	23,000 00	613
5–12	20,480	32	102 40	....	.....	6 02	1,926 40	752
7–12	9,775	34	78 20	....	.....	7 54	1,734 20	444
14–12	20,160	16	134 40	....	.....	6 94	5,829 60	434
15–12	43,200	06	108 00	....	.....	6 39	11,502 00	532
16–12	5,250	30	52 50	....	.....	6 90	1,207 50	46
21–12	19,200	55	110 00	....	.....	9 33	1,866 00	583
26–12	5,040	50	45 00	....	.....	8 08	727 20	505
37–12	2,520	14	25 20	....	.....	6 39	1,150 20	456
38–12	244,000	19	1,520 00	....	.....	6 52	52,160 00	428
40–12	54,000	60	270 00	....	.....	9 70	4,365 00	808
42–12	14,437	22	77 00	....	.....	7 45	2,607 50	996
46–12	3,360	42	33 60	....	.....	8 00	640 00	571
50–12	24,189	437	136–50	....	.....	7 04	2.197 26	454
	a488,002	b207	a2,856 80	b65	a1625.00	b7 16	a116916 86	b495
2–13	72,000	18	540 00	....	.....	5 78	17,340 00	482
3–13	3.600	20	30 00	....	.....	6 95	1,042 50	869
4–13	12,000	20	48 00	....	.....	4 99	1,197 60	499
7–13	67.500	65	325 00	....	.....	7 58	3,790 00	561
8–13	7,865	77	42 35	....	.....	6 07	333 85	552
9–13	33,660	1.02	224 40	....	.....	8 47	1,863 40	498
12–13	11,960	26	59 80	....	.....	7 59	1,745 70	584
18–13	10,400	475	95 00	....	.....	6 66	1,332 00	512
20–13	8,400	48	33 60	....	.....	5 99	419 30	499
22–13	7,150	60	33 00	....	.....	7 01	385 55	701
24–13	18,240	32	60 80	....	.....	7 04	1,337 60	44
	a252,775	b304	a1,491 95	....	.....	b6 27	a30,787 50	b507
10–14	2.940	25	12 00	....	.....	5 58	267 84	638
12–14	3,800	15	28 50	....	.....	4 60	874 00	92
	a6,740	b170	a40 50	....	.....	b4 80	a1,141 84	b833
1–15	6.000	36	36 00	....	.....	4 86	486 00	81
9–15	1,200	15	12 00	....	.....	5 21	416 80	1 737
13–15	6,240	30	62 40	....	.....	6 60	1.372 80	44
16–15	3,240	30	18 00	....	.....	5 77	346 50	963
	a16,680	b287	a128 40	....	.....	b5 85	a2,622 10	b607

a Totals for counties. b Averages for counties.
* Superintendent's salary. † Included in threshing.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

No.	Acres in Farm.	Value Per Acre.	Total Value	Acres in Wheat	Rent Per Acre.	Total Rent.	Plowing Per Acre.	Total Cost of Plowing.
1–18	100	$ 10	$1,000	80	$1.00	$ 80.00	$1.50	$ 120.00
4–18	125	7	735	100	75	75.00	1.25	125.00
	a205	b8.46	a1,735	a180	b861	a155.00	b1.361	a245.00
15–21	150	8	1,200	100	1 25	125.00	1.80	180.00
17–21	105	8	840	62	1.00	62.00	2 00	124.00
20–21	110	7	770	64	1.00	64 00	1.50	96.00
22–21	60	5	300	40	1.20	48.00	2.50	100.00
23–21	132	10	1,320	92	1.15	105 80	2 50	230.00
	a557	b7.95	a4,430	a358	b1.131	a404.80	b2 039	a730.00
1–22	210	10	2,100	100	2.00	200.00	2.00	200 00
2–22	c160	10	1,600	75	1.00	75 00	1.50	112.50
3–22	860	10	8,600	400	2.00	800.00	2.00	800.00
4–22	285	10	2,850	200	1.50	200.00	1.50	300.00
5–22	300	10	3,000	230	1 24	287 50	1 30	299.00
8–22	258	12	3,096	208	c1.44	299.52	1.25	260 00
10–22	400	7	2,800	200	1 00	200 00	1 50	300.00
16–22	180	10	1,800	130	1.00	130.00	1.75	227.50
18–22	160	6	960	100	1.00	100.00	1.25	125.00
20–22	600	15	9,000	375	70	262.50	1.25	468.75
21–22	200	10	2,000	140	1 50	210.00	1.75	245 00
22–22	700	10	7,000	375	1 00	375.00	1 40	525.00
25–22	c160	8	1,280	90	1.50	135.00	1.50	135.00
	a4,473	b10.30	a46,086	a2.623	b1.287	a3,374.52	b1.524	a3,997.75
5–24	200	22.50	4,500	120	2.00	240.00	1.50	180.00
9–24	130	10	1,300	100	c1 20	120.00	1.50	150.00
11–24	300	20	6,000	225	c2 40	540.00	1.25	281.25
12–24	240	25	6,000	150	3 00	450.00	1.75	262.50
15–24	210	20	4,200	160	3.00	480 00	1.75	280.00
17–24	280	20	5,600	150	2 00	300.00	2.00	300 00
18–24	350	25	8,750	180	3 00	540.00	1 75	315 00
19–24	480	25	12,000	120	c2.75	330.00	1 00	120 00
20–24	400	15	6,000	215	2 00	430.00	1.00	215 00
25–24	160	25	4.000	100	1 50	150.00	1 75	175 00
29–24	440	25	11 000	300	3 00	900.00	2.00	600.00
30–24	500	15	7,500	300	3 25	675 00	1.75	525.00
31–24	320	22	7,040	190	3.50	665.00	1.75	332.50

aTotal for counties.. bAverages for counties.. cEstimated..

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

No.	Amount Seed Per Acre.	Total Seed Bushels.	Value Per Acre.	Value Per Bushel.	Total Value of Seed.	Cost of Drilling Per Acre.	Total Cost of Drilling	Hail Insurance Per Acre.
1–18	1.25	100	$0.75	$0.60	$ 60.00	$0.25	$ 20.00	$. ....
4–18	1.125	113	65	57.8	65.00	25	25.00	.....
	b1.181	a213	b69.4	b58.8	a125.00	b25	a45.00	.....
15–21	1.25	125	67	53.6	67.00	27	27.00	.....
17–21	1.25	77	65	52	40.30	40	24.80	.....
20–21	1	64	40	40	25 60	30	19 20	.....
22–21	1.25	50	50	40	20.00	40	16 00	.....
23–21	1	92	62	82	57.04	40	36.80	66
	b1.140	a408	b58.6	b51.4	a209.94	b346	a123.80	0.66
1–22	1	100	50	50	50.00	25	25 00	.....
2–22	1	75	50	50	37.50	55	41 25	.....
3–22	1.25	500	75	60	300.00	50	200.00	112
4–22	1.25	250	65	52	130.00	40	80.00	.....
5–22	1.25	288	65	52	149.50	35	80.50	.....
8–22	1	208	50	50	104 00	30	62 40	.....
10–22	1	200	55	55	110.00	40	80.00	.....
16–22	1.25	162	65	52	84.50	30	39 00	.....
18–22	1	100	50	50	50.00	25	25 00	.....
20–22	1	375	60	60	225 00	33	123.75	.....
21–22	1.08	152	60	554	84.00	30	42.00	.....
22–22	1	375	55	55	206.25	35	131.25	.....
25–22	1.25	112	60	48	54.00	30	27 00	.....
	b1.104	a2,897	b60.4	b547	a1,584.75	b365	a957.15	b112
5–24	1 50	180	90	60	108.00	60	72.00	22
9–24	1.50	150	75	50	75.00	25	25.00	.....
11–24	1.50	337	75	50	168.75	50	112.50	25
12–24	1.33	200	70	525	105.00	45	67.50	.....
15–24	1.50	240	90	60	144.00	20	32.00	.....
17–24	1.75	263	1.00	571	150.00	30	45.00	21
18–24	1.25	225	75	60	135.00	35	63 00	.....
19–24	1.25	150	65	52	78.00	20	24 00	20
20–24	2	430	1.20	60	258.00	25	53.75	.....
25–24	1.50	150	90	60	90.00	30	30.00	27
29–24	1 50	450	75	50	225.00	75	225.00	.....
30–24	1.75	525	85	486	255.00	50	150 00	25
31–24	1.50	285	90	60	171.00	35	66.50	27

aTotals for counties. bAverages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

No.	Total Cost of Hail Ins.	Cutting—Per Acre.	Total Cost of Cutting.	Shocking—Per Acre.	Total Cost of Shocking.	Stacking—Per Acre.	Total Cost of Stacking.
1-18	.....	$ 0 80	$ 64 00	$0 15	$ 12 00	$0 20	$ 16 00
4-18	.....	75	75 00	15	15 00	40	40 00
	.....	b772	a139 00	b15	a27 00	b311	a56 00
15-21	.....	75	75 00	10	10 00	40	40 00
17-21	.....	1 00	62 00	25	15 50	50	31 00
20-21	.....	70	44 80	30	19 20	50	32 00
22-21	.....	90	36 00	25	10 00	65	26 00
23-21	60 72	72	66 24	20	18 40	30	27 60
	a60 72	b793	a284 04	b204	a73 10	b437	a156 60
1-22	.....	75	75 00	18	18 00	60	60 00
2-22	.....	1 00	75 00	20	15 00	.....	.....
3-22	45 00	1 00	400 00	25	100 00	.....	.....
4-22	.....	95	190 00	20	40 00	.....	.....
5-22	.....	75	172 50	15	34 50	.....	.....
8-22	.....	1 00	208 00	25	52 00	.....	.....
10-22	.....	1 25	250 00	20	40 00	.....	.....
16-22	.....	80	104 00	25	32 50	.....	.....
18-22	.....	75	75 00	15	15 00	.....	.....
20-22	.....	70	262 50	20	75 00	.....	.....
21-22	.....	80	112 00	20	28 00	45	63 00
22-22	.....	56	210 00	20	75 00	.....	.....
25-22	.....	80	72 00	25	22 50	.....	.....
	a45 00	b841	a2,206 00	b209	a547 50	b512	a123 00
5-24	26 30	73	87 60	20	24 00	60	72 00
9-24	.....	1 10	110 00	20	20 00	75	75 00
11-24	56 25	1 25	281 25	20	45 00	60	135 00
12-24	.....	1 25	187 50	25	37 50	1 00	150 00
15-24	.....	1 20	192 00	25	40 00	.....	.....
17-24	31 50	1 20	180 00	15	22 50	.....	.....
18-24	.....	1 25	225 00	25	45 00	45	81 00
19-24	24 00	60	72 00	20	24 00	.....	.....
20-24	.....	60	129 00	20	43 00	60	129 00
25-24	27 00	1 00	100 00	25	25 00	.....	.....
29-24	.....	1 00	300 00	25	75 00	80	240 00
30-24	75 00	1 15	345 00	25	75 00	55	165 00
31-24	51 30	75	142 50	20	38 00	75	142 50

aTotals for counties. bAverages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

No.	Threshing Per Acre.	Total Cost of Threshing.	Storing Per Acre.	Total Cost of Storing.	Average Yield Per Acre.	Total Product—Bushels.	Miles to Market.
1–18	$ 80	$ 64 00	$.....	$.....	10	800	25
4–18	80	80 00	20	20 00	10.2	1,020	30
	b80	a144 00	b20	a20 00	b10.11	a1,820	b27.80
15–21	72	72 00	.....	.....	9	900	2
17–21	85	52 30	15	9 30	10	620	3.5
20–21	70	44 80	20	12 80	10	640	5
22–21	54	21 60	.....	.....	9.2	368	3
23–21	55	50 60	.....	.....	6.5	598	3
	b674	a241 30	b175	a22 10	b8.73	a3,126	b3.22
1–22	1 20	120 00	08	8 00	12	1,200	10
2–22	2 00	150 00	.....	.....	15	1,125	12
3–22	1 00	400 00	.....	.....	9	3,600	20
4–22	1 90	380 00	10	20 00	19	3,800	8
5–22	2 00	460 00	.....	.....	20	4,600	9
8–22	1 20	249 60	.....	.....	12.33	2,565	20
10–22	90	180 00	.....	.....	10	2,000	15
16–22	1 40	182 00	10	13 00	14	1,820	4
18–22	90	90 00	.....	.....	9	900	8
20–22	1 75	656 25	.....	.....	14	5,250	20
21–22	60	84 00	.....	.....	12	1,680	1
22–22	1 10	412 50	.....	.....	12	4,500	7
25–22	1 75	157 50	33	29 70	15	1,350	18
	b1 343	a3,521 85	b136	a70 70	b13.11	a34,390	b12.43
5–24	1 10	132 00	.....	.....	20.5	2,460	2
9–24	1 20	120 00	.....	.....	15	1 500	5
11–24	80	180 00	.....	.....	15	3,375	10
12–24	1 75	262 50	.....	.....	24	3,600	2
15–24	1 75	280 00	.....	.....	19	3 040	2
17–24	1 60	240 00	.....	.....	16	2,400	2.5
18–24	60	108 00	.....	.....	12	2,160	1
19–24	1 80	216 00	.....	.....	17	2,040	2.5
20–24	1 80	387 00	.....	.....	24	5,160	14
25–24	1 60	160 00	.....	.....	20	2,000	1.5
29–24	1 20	360 00	.....	.....	17	5 100	1.75
30–24	1 50	450 00	30	90 00	20	6.000	2.75
31–24	1 05	199 50	30	57 00	20	3,800	3

aTotals for counties. bAverages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND BINDERS.

No.	Bushel-Miles --Product.	Cost to Market, Pr Acre	Total Cost to Market Crop.	Other Expenses Per Acre.	Total Other Expenses.	Total Cost Per Acre.	Total Cost of Crop.	Cost Per Bushel.
1–18	20,000	$0 50	$ 40 00	....	....	$5 75	$ 460 00	$.575
4–18	30,600	80	80 00	....	....	6 00	600 00	588
	a50,600	b667	a120 00	....	....	b5 889	a1,060 00	b582
15–21	1.800	09	9 00	....	..	6 05	605 60	672
17–21	2,170	30	18 60	....	....	7 10	440 20	71
20–21	3,200	30	19 20	....	....	5 90	377 60	59
22–21	1,104	20	8 00	....	....	7 14	285 60	776
23–21	1,794	15	13 80	....	....	7 25	667 00	1.115
	a10,068	b192	a86 60	....	....	b6 635	a2,375 40	b760
1–22	12.000	1 05	105 00	....	....	8 61	861 00	7175
2–22	13,500	1 05	78 75	....	....	7 80	585 00	52
3–22	72,000	75	300 00	....	....	8 32	3,328 00	929
4–22	30,400	85	170 00	....	....	8 05	1,610 00	424
5–22	41 400	1 00	230 00	....	....	7 45	1,713 50	3725
8–22	51,300	1 20	249 60	....	....	7 14	1,485 12	579
10–22	30,0(0	80	160 00	....	....	6 60	1,320 00	66
16–22	7.280	42	54 60	....	....	6 67	867 10	476
18–22	7,200	45	45 00	....	....	5 33	533 00	589
20–22	105,000	1 20	450 00	....	....	6 73	2.523 75	481
21–22	1,680	12	16 80	....	....	6 32	884 80	527
22–22	31.500	36	135 00	....	....	5 52	2,070 00	46
25–22	24,300	1 05	94 50	....	....	8 08	727 20	539
	a427,560	b797	a2,089 25	....	....	b7 056	a18 508 47	b538
5–24	4 929	21	25 20	....	....	8 06	967 20	393
9–24	7,500	50	50 00	....	....	7 45	745 00	497
11–24	33 750	75	168 75	....	....	8 75	1,968 75	583
12–24	7,200	60	90 00	....	....	10 75	1,612 50	448
15–24	6,080	35	56 00	....	....	9 40	1,504 00	495
17–24	6.000	32	48 00	....	....	8 78	1,317 00	549
18–24	2,160	13	23 40	....	....	8 53	1,535 40	711
19–24	5,100	34	40 80	....	....	7 74	928 80	455
20–24	72,240	1 25	268 75	....	....	9 10	1,956 50	379
25–24	3.000	20	20 00	....	....	7 77	777 00	388
29–24	8 925	25	75 00	....	....	10 00	3 000 00	588
30–24	16,500	40	120 00	....	....	9 75	2.925 00	4875
31–24	11,400	25	47 50	....	....	10 07	1,913 30	5035

aTotals for counties. bAverages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND BINDERS.

No.	Acres in Farm.	Value per Acre.	Total Value.	Acres in Wheat.	Rent per Acre.	Total Rent.	Plowing per Acre.	Total Cost of Plowing.
32-24	360	$25	$ 9,000	210	$3 00	$630 00	$1 50	$ 315 00
34-24	145	10	1,450	145	2 00	290 00	1 75	253 75
35-24	260	25	6,500	200	c3 00	600 00	2 00	400 00
38-24	200	20	4,000	150	1 50	225 00	1 50	225 00
39-24	140	c15	2,100	105	1 00	105 00	1 75	183 75
41-24	1,000	22 50	22 500	700	2 25	1,575 00	56	392 00
42-24	155	28	4,300	145	c3 36	487 20	1 65	239 25
43-24	300	20	6,000	190	2 50	475 00	1 60	304 00
45-24	200	25	5,000	145	c3 00	435 00	2 00	290 00
48-24	25	10	250	25	2 00	50 00	1 75	43 75
	a6,795	b21 34	a145,030	a4,325	b2 472	a10692 20	b1 476	a6,382 75
1-25	150	10	1,500	65	1 50	97 50	1 75	113 75
2-25	300	10	3,000	240	c1 25	300 00	1 75	420 00
	a450	b10 00	a4,500	a305	a1 303	a397 50	b 1 75	b533 75
2-26	600	15	9,000	280	2 50	700 00	2 00	560 00
3-26	130	25	3,250	100	1 50	150 00	1 25	125 00
5-26	160	10	1,600	120	1 00	120 00	1 75	210 00
6-26	1,175	20	23 500	500	c2 40	1,200 00	1 00	500 00
12-26	600	10	6,000	400	1 00	400 00	1 50	600 00
13-26	300	16	4,800	208	1 00	208 00	1 50	312 00
15-26	300	16	4,800	170	1 50	255 00	1 50	255 00
18-26	300	15	4,500	200	1 00	200 00	1 50	300 00
21-26	560	12	6,720	230	1 50	345 00	1 80	414 00
22-26	100	c12 50	1,500	90	c1 50	135 00	2 00	180 00
	a4.245	b15 47	a65,670	a2,298	b1 616	a3,713 00	b1 504	a3,456 00
5-27	7600	20	152 000	6,500	75	4,875 00	1 00	6,500 00
7-27	450	20	9,000	325	2 50	812 50	1 50	487 50
9-27	550	16	8,800	470	2 00	940 00	1 25	587 50
23-27	1,050	15	15,750	950	2 00	1,900 00	1 50	1,425 00
24-27	1,000	12	12,000	900	c1 44	1,296 00	1 00	900 00
25-27	460	10	4,600	335	1 00	335 00	1 00	335 00
29-27	160	10	1 600	100	c1 20	120 00	1 75	175 00
30-27	300	20	6,000	300	2 00	600 00	1 25	375 00
31-27	200	6	1,200	180	1 00	180 00	1 00	180 00
	a11770	b17 92	a210,950	a10,060	b1 099	a11058 50	b1 090	a10965 00

a Totals for counties. b Averages for counties. c Estimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND BINDERS.

No.	Amount Seed Per Acre.	Total Seed—Bushels.	Value Seed Per Acre.	Value of Seed Per Bushel.	Total Value of Seed.	Cost of Drilling Per Acre.	Total Cost of Drilling.	Hail Ins. Per Acre.
32-24	1.50	315	$ .90	$ .60	$ 189.00	$.75	$ 157.50	$ .30
34-24	1.25	181	.625	.50	90.63	.25	36.25	.....
35-24	1.50	300	.70	.467	140.00	.60	120.00	.....
38-24	1.375	206	.80	.582	120.00	.40	60.00	.27
39-24	1.25	131	.65	.52	68.25	.25	26.25	.....
41-24	1.50	1,050	.90	.60	630.00	.11	77.00	.....
42-24	1.50	218	.84	.56	121.80	.50	72.50	.....
43-24	1.00	190	.55	.55	104.50	.40	76.00	.....
45-24	1.50	217	.84	.56	121.80	.50	72.50	.....
48-24	2.00	50	1.00	.50	25.00	.50	12.50	.....
	b1.490	a6,443	b.826	b.555	a3,573.73	b.388	a1,676.75	b.252
1-25	1.25	81	.65	.52	42.25	.30	19.50	.....
2-25	1.00	240	.65	.65	156.00	.375	90.00	.....
	b1.053	a321	b.65	b.617	a198.25	b.359	a109.50	.....
2-26	1 25	350	.70	.56	196.00	.25	70.00	.....
3-26	1.50	150	.90	.60	90.00	.20	20.00	.25
5-26	1.00	120	.55	.55	66.00	.25	30.00	.....
6-26	1.25	625	.73	.584	365.00	.20	100.00	.....
12-26	1.00	400	.50	.50	200.00	.50	200.00	.....
13-26	1.25	260	.65	.52	135.20	.30	62.40	.....
15-26	1.25	212	.75	.60	127.50	.30	51.00	.....
18-26	1 25	250	.75	.60	150.00	.50	100.00	.....
21-26	1.00	230	.54	.54	124.20	.35	80.50	.....
22-26	1.25	113	.75	.60	67.50	.40	36.00	.....
	b1.179	a2.710	b.662	b.561	a1,521.40	b.326	a749.90	b.25
5-27	1.25	8,125	.80	.64	5,200.00	.25	1,625.00	.....
7-27	1.00	325	.75	.75	243.75	.25	81.25	.....
9-27	1.00	470	.75	.75	352.50	.45	211.50	.....
23-27	1.25	1,187	.70	.56	665.00	.25	237.50	.....
24-27	1.00	900	.55	.55	495.00	.20	180.00	.....
25-27	1.00	100	.60	.60	201.00	.26	87.10	.....
29-27	1.00	100	.60	.60	60.00	.40	40.00	.....
30-27	1.00	300	.60	.60	180.00	.30	90.00	.....
31-27	1.50	270	.75	.60	135.00	.50	90.00	.....
	b1.194	a12012	b.749	b.627	a7,532.25	b.263	a2,642.35	.....

aTotals for counties. bAverages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND BINDERS.

No.	Total Cost of Hail Ins.	Cutting—Per Acre.	Total Cost of Cutting.	Shocking—Per Acre.	Total Cost of Shocking.	Stacking—Per Acre.	Total Cost of Stacking.
32-24	$ 63.00	$ 1 25	$ 262 50	$0.25	$ 52 50	$0.80	$ 168 00
34-24	.....	80	116 00	.20	29 00	.75	108 25
35-24	.....	1 00	200 00	.35	70 00	.50	100 00
38-24	40.50	1 00	150 00	.25	37 50	.75	112 50
39-24	.....	1 00	105 00	.20	21 00	.60	63 00
41-24	.....	32	224 00	.08	56 00	.....	.....
42-24	.....	67	97 15	.12	17 40	.50	72 50
43-24	.....	85	161 50	.15	28 50	.75	142 50
45-24	.....	75	108 75	.35	50 75	.70	101 50
48-24	.....	1 25	31 25	.25	6 25	.75	18 75
	a394.95	b.880	a3,808 00	b.204	a882 90	b.671	a2,076 50
1-25	.....	74	48 10	.10	6 50	.65	42 25
2-25	.....	65	156 00	.125	30 00	.22	52 80
		b.669	a204 10	b.120	36 50	b.312	a95 05
2-26	.....	1 00	280 00	.25	70 00	.....	.....
3-26	25.00	90	90 00	.25	25 00	.80	80 00
5-26	.....	1 25	150 00	.30	36 00	.50	60 00
6-26	.....	65	325 00	.12	60 00	.....	.....
12-26	.....	80	320 00	.20	80 00	.....	.....
13-26	.....	75	156 00	.10	20 80	.30	62 40
15-26	.....	96	163 20	.17	28 90	.33	56 10
18-26	.....	1 00	200 00	.22	44 00	.....	.....
21-26	.....	93	213 90	.25	57 50	.....	.....
22-26	.....	75	67 50	.14	12 60	.....	.....
	a25.00	b.855	a1,965 60	b.189	a434 80	b.432	a258 50
5-27	.....	70	4,550 00	.18	1,170 00	.....	.....
7-27	.....	90	292 50	.15	48 75	.....	.....
9-27	.....	60	282 00	.30	141 00	.....	.....
23-27	.....	35	332 50	.20	190 00	.....	.....
24-27	.....	35	315 00	.13	117 00	.....	.....
25-27	.....	75	251 25	.10	33 50	.....	.....
29-27	.....	75	75 00	.25	25 00	.35	35 00
30-27	.....	1 00	300 00	.25	75 00	.....	.....
31-27	.....	1 00	180 00	.25	45 00	.50	90 00
	.....	b.654	b6,578 25	b.183	a1,845 25	b.446	a125 00

aTotals for counties. bAverages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND BINDERS.

No.	Threshing Per Acre.	Total Cost of Threshing.	Storing Per Acre.	Total Cost of Storing.	Average Yield Per Acre.	Total Product Bushels.	Miles to Market.
32-24	$1 00	$ 210 00	$ 0.15	$ 31 50	20	4,200	1.25
34-24	63	91 35	10	14 50	9	1,305	10
35-24	1 60	320 00	.....	.....	20	4,000	3.5
38-24	1 20	180 00	80	120 00	20	3,000	7
39-24	1 32	138 60	10	10 50	19	1,995	8
41-24	1 35	945 00	.....	.....	14	9,800	3.5
42-24	70	101 50	.....	.....	14	2,030	1.5
43-24	90	171 00	15	28 50	14	2,660	4
45-24	1 25	181 25	20	29 00	20	2,900	10
48-24	1 50	37 50	25	6 25	20	500	18
	b1 265	a5 471 20	b265	a387 25	b17.35	a75,025	b4.55
1-25	1 25	81 25	.....	.....	10	650	4.5
2-25	1 50	360 00	.....	.....	10	2,400	4
	b1 446	a441 25	.....	.....	b10	a3,050	b4.11
2-26	2 00	560 00	30	84 00	20	5,600	1.5
3-26	1 50	150 00	40	40 00	12	1,200	1
5-26	1 25	150 00	20	24 00	20	2,400	9
6-26	1 60	800 00	.....	.....	20	10 000	1.5
12-26	1 20	480 00	15	60 00	15	6,000	15
13-26	40	83 20	05	10 40	9	1,872	3
15-26	94	159 80	.....	.....	13.5	2,295	2
18-26	1 60	320 00	.....	.....	16	3 200	3
21-26	1 00	230 00	40	92 00	10	2.300	2
22-26	60	54 00	.....	.....	6	540	8
	b1,300	a2,987.00	b232	a310 40	b15.41	a35,407	b4.66
5-27	70	4,550 00	.....	.....	7	45,500	.....
7-27	1 00	325 00	.....	.....	10	3.250	2.5
9-27	96	451 20	04	18 80	8	3,760	1 5
23-27	55	522 50	.....	.....	6.75	6 413	5
24-27	60	540 00	.....	.....	8	7,200	6
25-27	72	241 20	.....	.....	6	2,010	6
29-27	50	50 00	.....	.....	7	700	8
30-27	1 00	300 00	.....	.....	8	2,400	1
31-27	60	108 00	.....	.....	6	1,080	10
	b705	a7,087 90	b04	a18 80	b7.19	a72,313	b4.47

a Totals for counties. b Averages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND BINDERS.

No.	Bushel—Miles—Product.	Cost to Market—Per Acre.	Total Cost to Market Crop.	Other Expn's Per Acr	Total Other Expens's.	Tot'l Cost Per Acre.	Total Cost of Crop.	Cost Per Bushel.
32-24	5,250	$0.10	$ 21 00	$...	$	$10 40	$2,184 00	$.52
34-24	13,050	54	78 30	....	.....	7 645	1,108 53	849
35-24	14,000	40	80 00	....	.....	10 15	2,030 00	5075
38-24	21.000	80	120 00	....	.....	9 27	1 390 50	4635
39-24	16,960	75	78 75	....	.....	7 62	800 10	401
41-24	34,300	10	70 00	....	.....	5 67	3 969 00	405
42-24	3,045	14	20 30	....	.....	8 48	1,229 60	606
43-24	10,640	30	57 00	....	.....	8 15	1,548 50	576
45-24	29,000	1.30	188 50	....	.....	10 89	1,579 05	5445
48-24	9,000	1.40	35 00	....	.....	10 65	266 25	5325
	a341,020	b412	a1,782 25	....	.....	b8 614	a37255 98	b497
1-25	2,925	25	16 25	....	.....	6 69	434 85	669
2-25	9,600	15	36 00	....	.....	5 87	1,408 80	587
	a12,525	b171	a52 25	....	.....	b6 045	a1,843 65	b604
2-26	8,400	25	70 00	....	.....	9 25	2.590 00	4625
3-26	1,200	12	12 00	....	.....	8 07	807 00	6725
5-26	21,600	1.00	120 00	....	.....	8 05	966 00	4025
6-26	15,000	15	75 00	....	.....	6 85	3,425 00	3425
12-26	90,000	75	300 00	....	.....	6 60	2,640 00	44
13-26	5,616	18	37 44	....	.....	5 23	1,087 84	581
15-26	4,590	21	35 70	....	.....	6 66	1.132 20	493
18-26	9,600	32	64 00	....	.....	6 89	1.378 00	431
21-26	4,600	20	46 00	....	.....	6 97	1,603 10	697
22-26	4,320	24	21 60	....	.....	6 38	574 20	1 063
	a164,926	b340	a781 74	....	.....	b7 051	a16,203 34	b458
5-27	....	*	.....	† 02	130 00	4 40	28,600 00	629
7-27	8,125	20	65 00	....	.....	7 25	2,356 25	725
9-27	5,640	12	56 40	....	.....	6 47	3,040 90	809
23-27	32,065	20	190 00	....	.....	5 75	5,462 50	852
24-27	43,200	30	270 00	....	.....	4 57	4,113 00	571
25-27	12,060	10	33 50	....	.....	4 53	1,517 55	755
29-27	5,600	35	35 00	....	.....	6 15	615 00	879
30-27	2,400	08	24 00	.. .	.....	6 48	1,944 00	81
31-27	10,800	36	64 80	‡ 40	72 00	6 36	1,144 80	1 06
	a119,890	b2075	a738 70	b 030	a202 00	b4 850	a48,794 00	b675

*Including threshing. †Destroying foul weeds. ‡Feed for teams and wear on machinery.
aTotals for counties. bAverages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND BINDERS.

No.	Acres in Farm.	Value Per Acre.	Total Value	Acres in Wheat	Rent Per Acre.	Total Rent.	Plowing Per Acre.	Total Cost of Plowing.
2-28	350	$15	$ 5,250	300	$1.50	$ 450 00	$1.50	$ 450 00
3-28	140	23	3,220	73	2.50	182 50	1.50	109 50
5-28	160	15	2,400	120	1.00	120 00	1.25	150 00
6-28	200	10	2,000	125	1.20	150 00	1.25	156 25
9-28	145	10	1,450	125	1.11	138 75	1.30	162 50
10-28	260	20	5,200	200	2.00	400 00	1.00	200 00
11-28	5,000	25	125,000	3,000	2.50	7,500 00	1.00	3,000 00
15-28	213	17	3,621	170	1 50	255 00	1.00	170 00
16-28	240	25	6,000	140	2.00	280 00	1.50	210 00
20-28	300	20	6,000	150	1.50	225 00	2.00	300 00
21-28	320	a25	8,000	220	3.00	660 00	1.40	308 00
22-28	380	20	7,600	305	1.50	457 50	c1.50	457 50
23-28	3,000	20	60,000	1,500	2.125	3.187 50	.45	675 00
24-28	300	18	5,400	175	3 00	525 00	1.60	280 00
28-28	600	27	16,200	350	c3.24	1,134 00	2.50	875 00
31-28	200	25	5.000	150	2.633	394 95	1.30	195 00
	a11,808	b22.22	a262.341	a7,103	b2.261	a16,060 20	b1.084	a7,698 75
4-29	160	7	1,120	75	2.00	150 00	2.00	150 00
8-29	125	10	1.250	80	1.00	80 00	1.70	136 00
10-29	200	6	1,200	150	1.00	150 00	1.70	255 00
13-29	200	10	2,000	120	1.00	120 00	1.80	216 00
	a685	b8:13	a5,570	a425	b1.176	a500 00	b1.781	a757 00
2-30	400	25	10,000	180	3 00	540 00	1.80	324 00
3-30	500	15	7,500	400	1.00	400 00	1.25	500 00
5-30	300	15	4,500	230	1.50	345 00	1.75	402 50
7-30	320	15	4,700	220	1.50	330 00	1.25	275 00
13-30	560	16	8,960	440	1.50	660 00	1.25	550 00
20-30	120	10	1,200	100	1.00	100 00	1.00	100 00
27-30	100	20	2,000	85	1.00	85 00	1.50	127 50
29-30	113	17.50	1,977	92	1.40	128 80	1.25	115 00
30-30	700	12	8,400	400	1.50	600 00	1.75	700 00
	a3,113	b15.81	a49 237	a2,147	b1.485	a3,188 80	b1.441	a3,094 00
7-31	75	4	300	20	1.00	20 00	1.50	30 00
17-31	450	5	2,250	225	60	135 00	1.65	371 25
	a525	b4.86	a2,550	a245	b.633	a155 00	b1 638	a401 25

aTotals for counties. bAverages for counties. cEstimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND BINDERS.

No.	Am't Seed Pr Acre.	Total Seed Bushels.	Value Seed Per Acre.	Value Seed Per Bushel.	Total Value of Seed.	Cost of Drilling Per Acre.	Total Cost of Drilling.	Hail Insurance Per Acre.
2-28	1.125	338	$ .70	$ .622	$ 210 00	$.30	$ 90 00	.....
3-28	1.25	91	.85	.68	62 05	.70	51 10	.....
5-28	1.25	150	.60	.48	72 00	.20	24 00	.....
6-28	1.25	156	.80	.64	100 00	.40	50 00	.....
9-28	1	125	.54	.54	67 50	.45	56 25	.....
10-28	1.125	225	.94	.836	188 00	.75	150 00	.....
11-28	1.50	4,500	.90	.60	2,700 00	1.00	3,000 00	.....
15-28	1	170	.53	.53	90 10	.65	110 50	.....
16-28	1	140	.65	.65	91 00	.33	46 20	.....
20-28	1.25	187	.75	.60	112 50	.25	37 50	.....
21-28	1.50	330	.90	.60	198 00	.40	88 00	.....
22-28	1.125	343	.60	.533	183 00	.25	76 25	.....
23-28	1.25	1,875	.625	.50	937 50	.15	225 00	.....
24-28	1.25	219	1.00	.80	175 00	.35	61 25	.17
28-28	1	350	.65	.65	227 50	.40	140 00	.....
31-28	1	150	.60	.60	90 00	.30	45 00	.....
	b1.316	a9,349	b .775	b.589	a5,504 15	b.598	a4,251 05	b.17
4-29	1.25	94	.56	.448	42 00	.30	22 50	.....
8-29	1.25	100	.60	.48	48 00	.35	28 00	.....
10-29	1.25	187	.63	.504	94 50	.60	90 00	.....
13-29	1.25	150	.75	.60	90 00	.30	36 00	.25
	b1.25	a531	b.646	b.517	a274 50	b.415	a176 50	b.25
2-30	1.25	225	.70	.56	126 00	.20	36 00	.27
3-30	1	400	.60	.60	240 00	.35	140 00	.....
5-30	1.125	259	.65	.578	149 50	.40	92 00	.....
7-30	1	220	.75	.75	165 00	.40	88 00	.....
13-30	1	440	.50	.50	220 00	.70	308 00	.....
20-30	1	100	.60	.60	60 00	.25	25 00	.....
27-30	1	85	.60	.60	51 00	.30	25 50	.....
29-30	1.25	115	.62	.496	57 04	.40	36 80	.05
30-30	1	400	.80	.80	320 00	.50	200 00	.....
	b1.045	a2,244	b.645	b.619	a1,388 54	b.443	a951 30	b.196
7-31	1.25	25	.75	.60	15 00	.35	7 00	.....
17-31	1	225	.55	.55	123 75	.45	101 25	.27
	b 020	a250	b 566	b.555	a138 75	b.442	a108 25	b.27

a Totals for counties. b Averages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND BINDERS.

No.	Total Cost of Hail Insurance.	Cutting Per Acre.	Total Cost of Cutting.	Shocking Per Acre.	Total Cost of Shocking.	Stacking Per Acre.	Total Cost of Stacking.
2–28	.....	$ 1 20	$ 360 00	$0.15	$ 45 00	.....	.....
3–28	.....	1 18	86 14	27	19 71	$1 15	$ 83 95
5–28	.....	75	90 00	15	18 00	45	54 00
6–28	.....	65	81 25	20	25 00	40	50 00
9–28	.....	75	93 75	10	12 50	20	25 00
10–28	.....	1 00	200 00	20	40 00	60	120 00
11–28	.....	50	1,500 00	20	600 00	.....	.....
15–28	.....	46	78 20	15	25 50	40	68 00
16–28	.....	1 25	175 00	125	17 50	60	84 00
20–28	.....	1 00	150 00	25	37 50	.....	.....
21–28	.....	75	165 00	12	26 40	50	110 00
22–28	.....	70	213 70	20	61 00	60	183 00
23–28	.....	50	750 00	15	225 00	.....	.....
24–28	$ 29 75	80	140 00	10	17 50	25	43 75
28–28	.....	1 25	437 50	25	87 50	.....	.....
31–28	.....	724	108 60	133	19 95	.....	.....
	a29 75	b652	a4,629 14	b180	a1,278 06	b497	a821 70
4–29	.....	1 00	75 00	20	15 00	.....	.....
8–29	.....	66	52 80	15	12 00	.....	.....
10–29	.....	80	126 00	25	37 50	85	127 50
13–29	30 00	70	84 00	18	21 60	25	30 00
	a30 00	b795	a337 80	b203	a86 10	b583	a157 50
2–30	48 60	80	144 00	10	18 00	.....	.....
3–30	.....	1 00	400 00	15	60 00	.....	.....
5–30	.....	90	207 00	20	46 00	30	69 00
7–30	.....	70	154 00	14	30 80	40	88 00
13–30	.....	85	374 00	10	44 00	.....	.....
20–30	.....	85	85 00	10	10 00	25	25 00
27–30	.....	85	72 25	15	12 75	40	36 80
29–30	4 60	1 00	92 00	20	18 40	.....	.....
30–30	.....	90	360 00	20	80 00	.....	.....
	a53 20	b879	a1,888 25	b149	a319 95	b345	a218 80
7–31	.....	85	17 00	15	3 00	50	10 00
17–31	60 75	75	168 75	.....	.....	40	90 00
	a60 75	b758	a185 75	b15	a3 00	b408	a100 00

a Totals for counties. b Averages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND BINDERS.

No.	Threshing Per Acre.	Total Cost of Threshing.	Storing Per Acre.	Total Cost of Storing.	Average Yield Per Acre.	Total Product—Bushels.	Miles to Market.
2-28	$ 1 25	$ 375 00	.....	.....	12 5	3,750	4 5
3-28	1 34	97 82	.....	.....	12	876	3.
5-28	90	108 00	.....	.....	12	1,440	7.
6-28	50	62 50	.....	.....	10	1.250	8.
9-28	70	87 50	.....	.....	10	1,250	2.
10-28	64	128 00	$0.20	$40 00	8	1,600	2.5
11-28	1 00	3,000 00	.....	.....	12	36,000	c1.5
15-28	70	119 00	.....	.....	9 5	1,615	4.
16-28	1 00	140 00	.....	.....	11	1,540	5.
20-28	90	135 00	.....	.....	9	1,350	6.
21-28	60	132 00	.10	22 00	10	2,200	5.
22-28	55	167 75	.....	.....	10	3,050	4.
23-28	75	1,125 00	.....	.....	9	13,500	.....
24-28	1 00	175 00	.10	17 50	10	1,750	4.
28-28	1 30	455 00	.....	.....	13	4,550	2.
31-28	1 10	165 00	.....	.....	10	1,500	3.
	b911	a6,472 57	b.134	a79 50	b10 87	a77,221	b2.61
4-29	1 75	131 25	14	10 50	14	1,050	20.
8-29	1 25	100 00	.....	.....	15	1,200	17.
10-29	1 05	157 50	.....	.....	15	2,250	16.
13-29	1 30	156 00	.....	.....	15	1.800	3.
	b1 282	a544 75	b.14	a10 50	b14.82	a6,300	b13.14
2-30	1 00	180 00	.....	.....	8.5	1,530	.5
3-30	1 00	400 00	.....	.....	10	4,000	4.
5-30	85	195 50	.05	11 50	13	2,990	1.5
7-30	50	110 00	.....	.....	12	2,640	5.
13-30	80	352 00	.....	.....	5.5	2,420	10.
20-30	30	30 00	.....	.....	3	300	3.
27-30	40	34 00	.....	.....	6.12	520	2.5
29-30	1 25	115 00	.11	10 12	11.5	1,058	3.
30-30	90	360 00	.....	.....	9	3,600	3.
	b827	a1,776 50	b 067	a21 62	b8 88	a19,058	b3.93
7-31	1 25	25 00	.....	.....	5.5	110	4.
17-31	36	81 00	.....	.....	4.5	1,012	4.
	b433	a106 00	.....	.....	b4.58	a1,122	b4.

aTotals for counties. bAverages for counties. cEstimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND BINDERS.

No.	Bushel-Miles —Product.	Cost to Market PrAcre.	Total Cost to Market.	Other Exp'n's PrAcre.	Total Other Exp'nses.	Total Cost Per Acre.	Total Cost of Crop.	Cost Per Bushel.
2–28	16,875	$0 37	$ 111 00	$0.05†	$ 15 00	$ 7 02	$ 2,106 00	$0 562
3–28	2,628	42	30 66	....	.....	9 91	723 43	826
5–28	10,000	60	72 00	...	.....	8 85	1,062 00	737
6–28	10,000	50	62 50	....	.....	5 90	734 50	59
9–28	2,500	20	25 00	....	.....	5 35	668 75	535
10–28	4,000	30	60 00	....	.....	7 63	1,346 00	954
11–28	54,000	24	720 00	....	.....	7 34	22,020 00	612
15–28	6,460	17	28 90	‡.10	17 00	5 66	962 20	596
16–28	7,700	33	46 20	....	.....	7 785	1,089 90	708
20–28	8,100	35	52 50	....	.....	7 00	1,050 00	778
21–28	11,000	30	66 00	§.20	44 00	8 27	1,819 40	827
22–28	12,200	225	68 62	....	.....	6 455	1,968 78	645
23–28	.....	*	.....	¶.50	750 00	5 25	7,875 00	583
24–28	7,000	30	52 50	**.10	17 50	8 77	1,534 75	877
28–28	9,100	26	91 00	....	.....	9 85	3,447 50	758
31–28	4,500	20	30 00	....	.....	6 99	1,048 50	699
	a166,143	b271	a1,516 88	b.357	a843 50	b6 963	a49,459 71	b640
4–29	21,000	98	73 50	....	.....	8 93	669 75	638
8–29	20,400	1 00	80 00	....	.....	6 71	536 80	447
10–29	36,000	1 05	157 50	....	.....	7 97	1,195 50	531
13–29	5,400	30	36 00	....	.....	7 13	855 60	475
	a82,800	b816	a347 00	....	.....	b7 665	a3,257 65	b517
2–30	765	05	9 00	....	.....	9 67	1,740 60	1 138
3–30	16,000	25	100 00	....	.....	5 60	2,240 00	56
5–30	4,485	20	46 00	....	.....	6 80	1,564 00	523
7–30	13,200	48	105 00	....	.....	6 12	1,346 40	51
13–30	24,200	40	176 00	....	.....	6 10	2,684 00	1 109
20–30	900	03	3 00	....	.....	4 38	438 00	1 46
27–30	1,300	c10	8 50	....	.....	5 30	450 50	866
29–30	3,174	30	27 60	....	.....	6 58	605 36	572
30–30	10,800	15	60 00	....	.....	6 70	2,680 00	744
	a74,824	b250	a535 70	....	.....	b6 404	a13,748 86	b721
7–31	440	15	3 00	....	.....	6 50	130 00	1 182
17–31	4,050	11	24 75	....	.....	5 14	1,156 50	1 442
	a4,490	b113	a27 75	....	.....	b5 251	a1,286 50	b1 146

*Included in threshing. †Extras for machinery. ‡Repairs. §Pulling weeds and setting up shocks. ¶Wear, repairs, breakage, extras, blacksmithing, delays, etc. **Rolling land. aTotals for counties. bAverage for counties. cEstimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND BINDERS.

No.	Acres in Farm.	Value Per Acre.	Total Value.	Acres in Wheat.	Rent Per Acre.	Total Rent.	Plowing Per Acre.	Total Cost of Plowing.
3-32	307	$ 8 00	$ 2,456	225	$ 1.00	$ 225.00	$ 1.45	$ 326.25
5-32	160	10 00	1,600	150	1.00	150.00	1.60	240.00
10-32	650	10.00	6,500	400	1.00	400.00	2 00	800.00
14-32	175	10.00	1,750	120	2.00	240.00	1.50	180.00
18-32	400	10.00	4,000	150	c1.20	180.00	1.15	172.50
19-32	215	10.00	2,150	115	1.00	115.00	1 50	172.50
25-32	1,480	8 00	17,840	1,000	1.50	1,500.00	2 00	2,000.00
26-32	425	15.00	6,375	355	1.80	639.00	1.70	603.50
27-32	600	10.00	6,000	450	1.65	742 50	1.10	495.00
32-32	640	20.00	12,800	580	2 00	1 160 00	1.75	1,015.00
24-32	140	12.00	1,680	100	1.25	125 00	1.25	125.00
35-32	1,200	12 00	14,400	820	1 50	1,230.00	1.50	1,230.00
36-32	845	15.00	12,675	410	1.50	615 00	1.40	574.00
40-32	200	10.00	2,000	200	1.00	200.00	1.20	240.00
42-32	160	13 33	2,133	100	1.75	175.00	1.52	152.00
44-32	180	12 00	2,160	100	1.00	100 00	1.25	125.00
51-32	300	12.00	3,600	200	1.87	375.00	1.50	300.00
53-32	140	15 00	2,100	95	c1.80	171.00	1.20	114.00
59-32	400	12 00	4,800	200	1 80	360.00	1.75	350.00
	a8617	b11.72	a101,019	a5,770	b1 508	a8,702 50	b1.597	a 9,214.75
2-33	320	14.00	4,480	250	1.50	375.00	1 25	312.50
3-33	460	10.00	4,600	230	1 00	230 00	2 00	460.00
8-33	2,000	5.00	10,000	1,500	1.00	1,500.00	1.75	2,625.00
9-33	700	20.00	14,000	250	1.25	312 50	1.45	362.50
12-33	340	10.00	3,400	210	c1.20	252.00	1.40	294.00
13-33	550	20.00	11,000	100	1.25	125 00	1.75	175.00
14-33	.....	.....	.....	c200	1.25	250 00	1.46	292.00
	a4370	b10.86	a47,480	a2,740	b1.111	a3,044 50	b1.650	a 4,521.00
2-34	300	10 00	3,000	170	c1.20	204 00	1.70	289.00
4-34	240	8 00	1,920	170	1.25	212 50	1.35	229.50
8-34	375	8 00	3,000	125	1.00	125 00	1.50	187.50
	a915	b8.66	a7,920	a465	b1.165	a541.50	b1.518	a706.00
2-35	1,420	25 00	35,500	850	2 00	1,700 00	1.25	1,062.50
6-35	300	25.00	7,500	200	2 50	500.00	1 10	220.00
14-35	400	20.00	2,000	65	3.00	195.00	2.00	130.00
16-35	240	25.00	6,000	115	3.00	345.00	1.00	115.00

aTotal for counties. bAverages for counties. cEstimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND BINDERS.

No.	Amount Seed Per Acre.	Total Seed - Bushels.	Value Seed Per Acre.	Value Seed Per Bushel.	Total Value of Seed.	Cost of Drilling Per Acre.	Total Cost of Drilling	Hail Insurance Per Acre.
3-32	1.125	253	$ .70	$ .622	$ 157.50	$ .30	$ 67.50	$ .10
5-32	1.25	187	.75	.60	112.50	.40	60.00	.....
10-32	1.	400	.60	.60	240.00	.45	180 00	.....
14-32	1.25	150	.75	.60	90.00	.30	36.00	.22
18-32	1.125	169	.675	.60	101.25	.30	45.00	.....
19-32	1.125	129	.80	.711	92.00	.40	46 00	.....
25-32	1.	1,000	.60	.60	600.00	.40	400.00	.20
26-32	1.125	399	.68	.604	241.40	.30	106.50	.....
27-32	1.50	675	.95	.633	427.50	.25	112 50	.22
32-32	1.25	725	.80	.64	464.00	.20	116 00	.25
34-32	1.	100	.60	.60	60.00	.35	35 00	.19
35-32	1.25	1,025	.70	.56	574 00	.25	205 00	.22
36-32	1 25	513	.68	.544	278.00	.40	164 00	.22
40-32	1 25	250	.75	.60	150 00	.30	60.00	.....
42-32	1.25	125	.625	.50	62.50	.20	20.00	.....
44-32	1 25	125	.81	.648	81.00	.25	25.00	.30
51-32	1.125	225	.70	.622	140.00	.30	60.00	.....
53-32	1.25	119	.68	.544	64 60	.25	23.75	.....
59-32	1.50	300	1.00	.667	200.00	.35	70.00	.20
	b1.190	a6,869	b.717	b.602	a4,137.05	b.318	a1,832.25	b.213
2-33	1.25	313	.65	.52	162.50	.50	125.00	.....
3-33	1.	230	.60	.60	138 00	.40	92 00	.20
8-33	1.25	1,875	.75	.60	1 125.00	.35	525.00	.....
9-33	1.	250	.50	.50	125 00	.40	100.00	.....
12-33	1.	210	.50	.50	105.00	.30	63 00	.....
13-33	1.	100	.60	.60	60.00	.50	50.00	.....
14-33	1.	200	.59	.59	118.00	.46	92 00	.....
	b1.160	a3,178	b.669	b.577	a1,833.50	b.382	a1,047.00	b.20
2-34	1.25	212	.90	.72	153 00	.50	85.00	.....
4-34	1.25	213	.75	.60	127.50	.25	42.50	.....
8-34	1.	125	.50	.50	62.50	.30	37.50	.27
	b1.183	a550	b.738	b.624	a343.00	b.355	a165.00	b.270
2-35	.75	637	.40	.533	340.00	.40	340.00	.....
6-35	1.50	300	.90	.60	180.00	.30	60.00	.....
14-35	1.25	81	.65	.52	42 25	.40	26.00	.....
16-35	1.25	144	.62	.496	71.30	.25	28.75	.....

a Totals for counties.. b Averages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND BINDERS.

No.	Total Cost of Hail Ins.	Cutting Per Acre.	Total Cost of Cutting.	Shocking Per Acre.	Total Cost of Shocking.	Stacking Per Acre.	Total Cost of Stacking.
3-32	$22.50	$ 0.50	$ 112.50	$0.10	$ 22.50	.....	.....
5-32	.....	75	112.50	.20	30.00	.....	.....
10-32	.....	75	300.00	.15	60.00	.....	.....
14-32	26.40	65	78.00	25	30.00	.....	.....
18-32	.....	55	82.50	.25	37.50	.....	.....
19-32	.....	80	92.00	.20	23.00	.....	.....
25-32	200.00	1.00	1,000.00	.30	300.00	.....	.....
26-32	.....	75	266.25	.21	74.55	.....	.....
27-32	99.00	65	292.50	.18	81.00	.....	.....
32-32	145.00	68	394.40	.20	116.00	.....	.....
34-32	19.40	66	66.00	.15	15.00	.....	.....
35-32	180.40	65	533.00	.16	131.20	.....	.....
36-32	90 20	1.00	410.00	.17	69.70	.....	.....
40-32	.....	60	120.00	.20	40.00	.....	.....
42-32	.....	55	55.00	.15	15.00	$0.50	$ 50.00
44-32	30.00	60	60.00	.10	10.00	.....	.....
51-32	.....	75	150.00	.15	30.00	.....	.....
53-32	.....	90	85.50	.125	11.87	.....	.....
59-32	40.00	1.00	200.00	.20	40.00	.75	150.00
	a852.50	b.764	a4,410.15	b.197	a1,137.32	b.667	a200.00
2-33	.....	1.00	250.00	.25	62.50	.50	125.00
3-33	46.00	75	172.50	.17	39.10	.....	.....
8-33	.....	80	1,200.00	.20	300.00	.....	.....
9-33	.....	75	187.50	.15	37.50	.....	.....
12-33	.....	60	126.00	.20	42.00	.....	.....
13-33	.....	1.25	125.00	.15	15.00	.....	.....
14-33	.....	89	178.00	.20	40.00	.....	.....
	a46.00	b.817	a2,239.00	b.196	a536.10	b.50	a125.00
2-34	.....	1.00	170.00	.14	23.80	.....	.....
4-34	.....	1.10	187.00	.13	22.10	.....	.....
8-34	33.75	70	87.50	.14	17.50	.....	.....
	a33 75	b.956	a444.50	b.136	a63.40	.....	.....
2-35	.....	50	425.00	.20	170.00	.....	.....
6-35	.....	65	130.00	.25	50.00	.40	80.00
14-35	.....	80	52.00	.25	16.25	.50	32.50
16-35	.....	75	86.25	.20	23.00	.80	92.00

a Totals for counties. bAverages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND BINDERS.

No.	Threshing—Per Acre.	Total Cost of Threshing.	Storing—Per Acre.	Total Cost of Storing.	Average Y'ld Per Acre.	Total Product—Bushels.	Miles to Market.
3-32	$ 1.30	$ 292.50	.....	.....	13	2,925	5
5-32	1.05	157.50	$ 0.125	$ 18.75	10.5	1,575	6
10-32	1.50	600.00	.....	.....	15	6,000	7
14-32	1.50	180.00	.....	.....	15	1,800	16
18-32	1.11	166.50	.....	.....	10	1,500	8
19-32	1 15	132.25	.....	.....	10	1,150	3
25-32	1.00	1,000.00	.....	.....	12	12,000	12
26-32	1.50	532.50	.135	47.93	13.5	4,793	2
27-32	90	405.00	.10	45.00	10	4,500	10
32-32	1.32	765.06	.....	.....	11	6 380	7.5
34-32	1.30	130.00	.....	.....	13	1,300	4
35-32	1.25	1,025.00	.....	.....	12.5	10,250	10
36-32	1.30	533.00	.26	106.60	13	5,330	5
40-32	80	160.00	.10	20.00	10	2,000	17
42-32	72	72.00	.15	15.12	12	1,200	c3
44-32	1.10	110.00	.....	.....	11	1,100	15
51-32	1 50	300.00	.....	.....	15	3,000	14
53-32	1.30	125.50	.....	.....	12	1,140	20
59-32	1.40	280.00	.30	60.00	17	3,400	13
	b1.207	a6,965.35	b168	a313.28	b12.36	a71,343	b9.17
2-33	1.05	262.50	.30	75.00	13	3,250	7
3-33	1.50	345.00	.15	34.50	15	3,450	5
8-33	70	1,050.00	.35	525.00	7	10,500	7
9-33	1.17	292.50	.....	.....	13	3,250	1
12-33	90	189.00	.10	21.00	9	1,890	6
13-33	1.44	144.00	.....	.....	12	1,200	3
14-33	80	160.00	.....	.....	8	1,600	c6
	b892	a2,443.00	b299	a655.50	b9.17	a25,140	b5.62
2-34	1.32	224.40	.....	.....	10	1.870	1.5
4-34	1.25	312.50	.10	17.00	17	2,890	12
8-34	1.40	175.00	.28	35.00	14	1,750	18
	b1.316	a611.90	b176	a52.00	b14	a6,510	b10.60
2-35	.90	765.00	.....	.....	12	10,200	3.5
6-35	.80	160.00	.....	.....	11.125	2.225	2.25
14-35	.90	58.50	.....	.....	12	780	.5
16-35	.80	92-00	.13	14.95	13	1,495	2

aTotals for counties. bAverages for counties. cEstimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND BINDERS.

No.	Bush'l-Miles —Product.	Cost to Market Per Acre.	Total Cost to Market Crop.	Other Exps. Per Acre.	Total Other Expenses.	Total Cost Per Acre.	Total Cost of Crop.	Cost Per Bushel
3-32	14 625	$0.35	$ 78.25	$...	$	$ 5.80	$ 1,305.00	$ .446
5-32	9,450	.22	33.00	*.03	4.50	6.125	918.75	.583
10-32	42,000	.40	160.00	....	. ....	6.85	2,740.00	.457
14-32	28,800	1 20	144.00	....	.... .	8.37	1,004.40	.558
18-32	12,000	.50	75.00	....	. ....	5.73	859.50	.573
19-32	3,450	.15	17.25	....	.... .	6.00	900.00	.60
25-32	144,000	.72	720.00	....	. ....	7.84	7,840.00	.653
26-32	9,586	.27	95.85	....	.... .	7.345	2,607.48	.544
27-32	45,000	.35	157.50	†.10	45.00	6.45	2 902.50	.645
32-32	47,850	.33	191.40	....	.... .	7.53	4,367.40	.685
34-32	5,200	.25	25.00	‡.25	25.00	6.25	625.00	.481
35-32	102,500	.75	615.00	....	. ....	6.98	5,723.60	.558
36-32	26,650	.26	106.60	....	.... .	7.19	2,947.90	.553
40-32	34,000	.70	140.00	....	. ....	5.65	1,130.00	.565
42-32	3,600	.10	10.00	....	.... .	6.255	625.50	.521
44-32	16,500	.60	60.00	....	. ....	6.01	601.00	.546
51-32	42,000	1.20	240.00	....	.... .	7.97	1,594.00	.531
53-32	22,800	1.20	114.00	...	. ....	7.455	708.22	.621
59-32	44,200	1.00	200.00	....	.... .	9.75	1,950.00	.574
	a654,211	b.552	a3182.85	b 106	a74.50	b7.130	a41,140.25	b.577
2-33	22,750	.25	62.50	....	. ....	7.25	1.812.50	.558
3-33	17,250	.53	121.90	....	. ....	7.30	1,679.00	.487
8-33	73,500	.35	525.00	....	.... .	6.15	9.225.00	.879
9-33	3,250	.13	32.50	....	. ....	5.80	1.450.00	.446
12-33	11,340	.27	56.70	....	.... .	5.47	1,148.70	.608
13-33	3.600	.24	24.00	....	. ....	7.18	718.00	.598
14-33	9,600	.28	56.00	....	.... .	5.93	1,186.00	.741
	a141.290	b.321	a878.60	....	. ....	b6.284	a17 219.20	b.685
2-34	2,805	.22	37.40	....	. ....	6.98	1,186.60	.635
4-34	34,680	.85	144.50	....	. ....	7.03	1,195.10	.414
8-34	31,500	.70	87.50	....	.... .	6.79	848.75	.485
	a68,985	b.579	a269.40	....	.... .	b6.947	a3,230.45	b.496
2-35	35,700	.30	255.00	§1.00	a850.00	6.95	5,907.50	.579
6-35	5,006	.25	50.00	....	.... .	7.15	1.430.00	.643
14-35	390	.12	7.80	....	. ....	8.62	560.30	.718
16-35	2,990	.26	29.90	....	.... .	7.81	898.15	.601

aTotals for counties. bAverages for counties *Oils, nails, bolts and incidentals.
†Pulling mustard and killing gophers. ‡Repairs. §Keeping of teams balance of year.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND BINDERS.

No.	Acres in Farm.	Value Per Acre.	Total Value.	Acres in Wheat.	Rent Per Acre.	Total Rent.	Plowing Per Acre.	Total Cost of Plowing.
17-35	230	$20 00	$ 4,600	180	$ 1.60	$ 288.00	$ 1.50	$ 270.00
21-35	320	35 00	11,200	235	3.00	705.00	1.50	352.50
23-35	150	15.00	2,250	130	1.72	223.60	1.83	237.90
25-35	320	c20.00	6,400	250	c2.40	600.00	1.60	400.00
30-35	400	30.00	12,000	265	2.52	667.80	1.50	397.50
35-35	150	c20.00	3,000	105	2.12	222.60	1.70	178.50
38-35	330	25 00	8,250	275	3.00	825.00	2 00	550.00
39-35	1,700	22.00	37,400	1,258	3 15	3,962.70	1 20	1,509.60
40-35	230	25.00	5,750	190	2 00	380 00	1.40	266.00
42-35	400	25.00	10,000	210	2.50	525 00	1.00	210.00
	a6290	b24.14	a151,850	a4,328	b2.574	a 11,139.70	b1.363	a 5,899.50
4-36	320	25 00	8,000	240	2.50	600 00	1.00	240.00
5-36	250	20 00	5,000	160	2 00	320.00	1.80	288.00
6-36	250	20.00	5,000	200	2.50	500.00	1.50	300.00
7-36	620	25.00	15,500	400	2.00	800.00	1.35	540.00
8-36	180	10 00	1,800	95	c1.20	114.00	1.80	171.00
12-36	228	50 00	11,400	80	c3.00	240.00	1.50	120.00
16-36	190	30.00	5,700	140	5.00	700.00	1.75	245.00
17-36	270	40 00	10,800	200	4.00	800.00	1.00	200.00
19-36	300	30.00	9,000	230	c3 60	828.00	1.50	345.00
22-36	300	22.00	6 600	240	2.64	633.60	1 10	264.00
23-36	125	24.00	3 000	100	3.00	300.00	1.50	150.00
25-36	180	10 00	1,800	150	1.50	225.00	1.75	262.50
27-36	428	26.00	11,128	340	3.00	1,020 00	2.00	680.00
28-36	150	30.00	4,500	100	4.00	400.00	1.50	150.00
30-36	260	20.00	5,200	190	2 50	475.00	1.50	285.00
31-36	440	20.00	8,800	300	3.00	900 00	1.75	525.00
36-36	180	10.00	1,800	125	2.00	250 00	1.25	156.25
	a4671	b24.63	a115,028	a3,290	b2.768	a9,105.60	b1.496	a 4,921.75
1-38	200	5.00	1,000	150	1.00	150 00	1.50	225.00
6-38	230	10.00	2,300	150	.75	112 50	1.50	225.00
12-38	125	8.00	1,000	100	1.00	100 00	2.00	200.00
15-38	600	12.00	7,200	500	1.00	500.00	1.25	625.00
	a1155	b9.96	a11,500	a900	b .958	a862.50	b1.417	a 1,275.00

Total number of acres in state, 139,620; total value, $2,363,178; total acres in wheat, 93,898; total rent, $169,065.25; total cost of plowing, $127.696.58.

Averages for State—Value per acre, $16.93; rent per acre, $1.801; plowing per acre, $1.360.

aTotal for counties. bAverages for counties. cEstimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND BINDERS.

No.	Amount Seed Per Acre.	Total Seed - Bushels.	Value Seed Per Acre.	Value Seed Per Bushel.	Total Value of Seed.	Cost of Drilling Per Acre.	Total Cost of Drilling	Hail Insurance Per Acre.
17-35	1.25	225	$ .62	$ .496	$ 111 60	$ 35	$ 63.00	.....
21-35	1.	235	.60	.60	141 00	.40	94.00	$ .20
23-35	1.25	163	.66	.528	88 40	.35	45.50	.....
25-35	1.25	312	.68	.544	170.00	.25	62 50	.....
30-35	1.25	331	.90	.72	238.50	.40	106.00	.....
35-35	1.	105	.60	.60	63 00	.41	43.05	.....
38-35	1.25	344	.65	.52	178.75	.40	110.00	.14
39-35	1.25	1,573	.81	.648	1 018.98	.25	314.50	.....
40-35	1.125	214	.70	.622	133 00	.20	38.00	.....
42-35	1.25	262	.65	.52	136.50	.20	42.00	.....
	b1.138	a4,926	b.673	b.591	a2,913.28	b.317	a1,373.30	b.168
4-36	1.125	270	.71	.631	170 40	.35	84.00	.22
5-36	1.125	180	.67	.596	107.20	.40	64.00	.22
6-36	1.25	250	.69	.552	138.00	.40	80.00	.....
7-36	1.25	500	.75	.60	300 00	.55	220 00	.....
8-36	1.25	119	.83	.664	78.85	.45	42.75	.....
12-36	1 25	100	.75	.60	60.00	.20	16.00	.....
16-36	1.25	175	.62	.496	86.80	.65	91 00	.....
19-36	1.25	250	.75	.60	150 00	.30	60.00	.....
10-36	1.	230	.55	.55	126.50	.50	115.00	.....
22-36	1.	240	.60	.60	144.00	.30	72.00	.....
23-36	1.	100	.50	.50	50.00	.25	25.00	.....
25-36	1.25	187	.75	.60	112.50	.35	52.50	.....
27-36	c1.25	425	.75	.60	255.00	.50	170.00	.27
28-36	1.25	125	.65	.52	65.00	.40	40.00	.04
30-36	1.375	261	1.00	.727	190.00	1.00	190.00	.50
31-36	1.166	350	.58	.497	174.00	.40	120.00	... ...
36-36	1.125	141	.65	.578	81.25	.30	37.50	.....
	b1.186	a3,903	b.696	b.587	a2,289.50	b.450	a1,479.75	b.271
1-38	1.25	187	.625	.50	93.75	.50	75.00	.25
6-38	1.25	188	.625	.50	93 75	c.40	60.00	.....
12-38	1.25	125	.50	.40	50.00	.33	33 00	.27
15-38	1.125	562	.60	.533	300.00	.50	250.00	... ...
	b1.180	a1,062	b.597	b.506	a537.50	b.464	a418.00	b.258

a Totals for counties. b Averages for counties. c Estimated.

TOTALS AND AVERAGES FOR THE ENTIRE STATE.—Total amount seed used, 113,573 bushels ; total value of seed, $67,786.12 ; total cost of drilling, $34,606.47

Average amount of seed used per acre, 1.21 bushels ; average value of seed per acre, $.722 ; average value of seed per bushel, $.597 ; average cost of drilling per acre, $.369 ; average cost of hail insurance per acre, $.216.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND BINDERS.

No.	Total Cost of Hail Ins.	Cutting Per Acre.	Total Cost of Cutting.	Shocking Per Acre.	Total Cost of Shocking.	Stacking Per Acre.	Total Cost of Stacking.
17-35	.....	$0.75	$ 135.00	$0.20	$ 36.00	$0.50	$ 90.00
21-35	$47.00	1.00	235.00	.25	58.75	.....	.....
23-35	.....	1.25	162.50	.20	26.00	.95	123.50
25-35	.....	1 00	250.00	.16	40.00	.....	.....
30-35	.....	1.00	265.00	.20	53.00	.60	159.00
35-35	.....	.82	86.10	.36	37.80	.....	.....
38-35	38.50	.65	178.75	.21	57.75	.....	.....
39-35	.....	.71	893.18	.16	204.43	.....	.....
40-35	.....	1.00	190.00	.15	28.50	.65	123.50
42-35	.....	.60	126.00	.20	42.00	1.00	210.00
	a85.50	b.742	a3,214.78	b.195	a843.48	b.672	a910.50
4-36	52 80	.85	204.00	.30	72.00	.....	.....
5-36	35.20	.90	144.00	.20	32.00	.75	120.00
6-36	.....	1.25	250.00	.25	50.00	.60	120.00
7-36	.....	1.15	460.00	.16	64.00	.....	.....
8-36	.....	1.20	114.00	.17	16.15	.60	57.00
12-36	.....	1.50	120.00	.20	16.00	.75	60.00
16-36	.....	1.30	182.00	.20	28.00	1.00	140.00
17-36	.....	1.25	250.00	.15	30.00	.....	.....
19-36	.....	.74	170.20	.14	32.20	.60	138.00
22-36	.....	.75	180.00	.17	40.80	.77	184.80
23-36	.....	.90	90.00	.13	13.00	.60	60.00
25-36	.....	1.00	150.00	.25	37.50	.....	.....
27-36	91.80	1.00	340.00	.25	85.00	.....	.....
28-36	4 00	.68	68.00	.20	20.00	.....	.....
30-36	95.00	1.00	190.00	.25	47.50	.....	.....
31-36	.....	1.00	300.00	.20	60.00	.....	.....
36-36	.....	.90	112.50	.20	25.00	.....	.....
	a278 80	b1.011	a3,324.70	b.203	a669.15	b.707	a879.80
1-38	37.50	.80	120.00	.20	30.00	.....	.....
6-38	.....	.80	120.00	.10	15.00	.....	.....
12-38	27.00	1 00	100.00	.20	20.00	.....	.....
15-38	.....	1.00	500.00	.15	75.00	.....	.....
	a64.50	b933	a840.00	b155	a140.00	.....	.....

aTotals for counties. bAverages for counties.

TOTALS AND AVERAGES FOR THE ENTIRE STATE.—Total cost of hail insurance, $4,488.55; total cost of cutting, $66,908.84. A total of 93,248 acres was shocked, at a total cost of $18,273.70; a total of 14,890 acres was stacked, at a total cost of $8,177.95.

Average cost of cutting per acre, $.713; average cost of shocking per acre, $.196; average cost of stacking per acre, $.549.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND BINDERS.

No.	Threshing Per Acre.	Total Cost of Threshing.	Storing Per Acre.	Total Cost of Storing.	Average Yield Per Acre.	Total Product, Bushels.	Miles to Market.
17-35	$0.78	$ 140 40	.....	.....	15.	2,700	3.
21-35	1.50	352 50	.....	.....	15.	3,525	5.
23-35	.83	107 90	.....	.....	11.	1,430	2.5
25-35	1.00	250 00	.....	.....	10.	2,500	7.
30-35	1.50	397 50	.....	.....	15.	3,975	.5
35-35	1.64	172 20	.....	.....	17.	1,785	1.
38-35	1.44	396 00	.....	.....	16.	4,400	7.
39-35	1.307	1,644 84	.....	.....	14.	17,612	1.75
40-35	.80	152 00	.....	.....	15.	2,850	7.
42-35	1.14	239 40	$ .20	$ 42 00	17.	3,570	4.
	b1.139	a4,928 24	b.175	a56 95	b13.64	a59,047	b3.23
4-36	1.00	240 00	.....	.....	10.	2,400	3.
5-36	.80	128 00	.15	24.00	16.	2,560	3.5
6-36	.80	160 00	.....	.....	12.	2,400	9.
7-36	1 00	400 00	.....	.....	13.	5,200	5.
8-36	1.25	118 75	.....	.....	16.	1,520	4.
12-36	1.08	86 40	.....	.....	18.	1.440	.....
16-36	1.10	154 00	.....	.....	21.	2,940	9.
17-36	1.60	320 00	.....	.....	18.	3,600	.75
19-36	.90	207 00	.....	.....	12.	2,760	.....
22-36	.78	187 20	.15	36.00	15.5	3.720	6.
23-36	.77	77 00	.....	.....	44.	1.400	1.
25-36	1.80	270 00	.....	.....	16.	2,400	9.
27-36	1.50	510 00	.....	.....	15.	5,100	2.
28-36	1.44	144 00	.....	.....	18.	1,800	2.
30-36	1.86	353 40	.....	.....	16.	3,040	6.
31-36	1.47	441 00	.....	.....	21.	6 300	c1.
36-36	2.00	250 00	.75	93.75	19.75	2,469	14.
	b1.230	a4,046 75	b.293	a153 75	b15.52	a51,049	b4.64
1-38	1.60	240 00	c32	48 00	16.	2,400	5.
6-38	1.20	180 00	.....	.....	12.	1,800	4.
12-38	1.20	120 00	.....	.....	12.	1,200	17.
15-38	1.08	540 00	.....	.....	12.	6,000	1
	b1.200	a1,080 00	b32	a48 00	b12.67	a11,400	b4.

Total cost of threshing in state, $100,117.35; total amount of storage, 19,275 acres, 247,303 bushels; total cost of storing, $3,478.46; total production, 1,126,053 bushels. (1,025,353 bushels hauled to market.)

Averages for State—Threshing, per acre, $1.066; storing, $0.180 per acre, $0.014 per bushel; average yield, per acre, 11.99 bushels; average miles to market, 4.85 miles.

a Totals for counties. b Averages for counties. cEstimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND BINDERS.

No.	Bush'l-Miles —Product.	Cost to Market Per Acre.	Total Cost to Market Crop.	Other Exps. Per Acre.	Total Other Expenses.	Total Cost Per Acre.	Total Cost of Crop.	Cost Per Bushel
17–35	8,100	$0.40	$ 72.00	$...	$	$ 6.70	$ 1,206.00	$ .447
21–35	17,625	.40	94.00	....	.....	8.85	2,079.75	.59
23–35	3,575	.33	42.90	....	.....	8.12	1,055.60	.738
25–35	17,500	.30	75.00	....	.....	6.66	1,665.00	.666
30–35	1,988	.12	31.80	....	.....	8.79	2,329.35	.586
35–35	1,785	.17	17.85	....	.....	8.41	883.05	.495
38–35	30,800	.64	176.00	*.45	123.75	8.99	2,472.25	.562
39–35	30,821	.1925	242.16	....	.....	7.7825	9,790.39	.556
40–35	19,950	.45	85.50	....	.....	7.35	1,396.50	.49
42–35	14 280	.34	71.40	....	.....	7.83	1,644.30	.461
	a190,510	b.289	a1251.31	b 866	a973.75	b7.698	a33,318.14	b.564
4–36	7,200	.35	84.00	....	.....	7.28	1,747.20	.728
5–36	8,960	.30	48.00	....	.....	8.19	1,310.40	.512
6–36	21,600	.60	120.00	....	.....	8.59	1,718.00	.716
7–36	26,000	.26	104.00	†.28	112.00	7.50	3,000.00	.577
8–36	6,080	.40	38.00	....	.....	7.90	750.50	.494
12–36	....	.....	.....	....	.....	8.98	718.40	.499
16–36	26,460	1.05	147.00	....	.....	13.30	1,862.00	.633
17–36	2,700	c.09	18.00	....	.....	9.14	1,828.00	.508
19–36	....	....	.....	....	.....	8.53	1,961.90	.713
22–36	22,320	.47	112.80	....	.....	7.73	1,855.20	.499
23–36	1,400	.14	14.00	....	.....	7.79	779.00	.556
25–36	21,600	.75	112 50	....	.....	8.15	1.222.50	.509
27–36	10,200	.30	102.00	...	.....	9.57	3,253.80	.638
28–36	3,600	.22	22.00	....	.....	9.13	913.00	.507
30–36	18,240	.80	57.00	....	.....	10.41	1,977.90	.651
31–36	6,300	.42	126.00	....	.....	8.82	2,646.00	.420
36–36	34,566	1.18	147.50	....	.....	9.23	1,153.75	.467
	a217,226	b.416	a1252.80	....	.....	b8.723	a28,697.55	b.562
1–38	12,000	.48	72.00	....	.....	7.275	1,091.25	.455
6–38	7,200	.36	54.00	....	.....	5.735	860.25	.478
12–38	20,400	.60	60.00	....	.....	7.10	710.00	.592
15–38	6,000	.10	50.00	....	.....	5.68	2,840.00	.473
	a45,660	b 262	a236.00	....	.....	b6.113	a5,501.50	b.483

aTotals for counties. bAverages for counties. *Fallowing, Manuring, etc.
†Extras, oil and sundries.

TOTALS AND AVEEAGES FOR ENTIRE STATE.—Total bushel-miles (product of bushels multiplied by miles hauled), 4,972,094; total cost to market, 83,088 acres, $26,442.94; total other expenses, $5,103 5 ', for 16,765 acres; total cost of crop, $632,834.42; average cost per acre for hauling to market, $.318; average cost of "other expenses" per acre, $.304; average cost of crop per acre, $6,731; average cost per bushel, $.562.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Acres in Farm.	Value Per Acre.	Total Value	Acres in Wheat	Rent Per Acre.	Total Rent.	Plowing Per Acre.	Total Cost of Plowing.
7–1	120	$12	$ 1,440	100	$1.75	$ 175 00	$1.50	$ 150 00
14–1	220	10	2,200	120	1.65	198 00	1.00	120 00
	a340	b10.71	a3,640	a220	b1.69	a373 00	b1.23	a270 00
5–2	80	12	960	65	2.00	130 00	1.50	97 50
9–2	235	12.50	2,937	210	1.00	210 00	1.70	357 00
15–2	350	10	3,500	215	c1.20	258 00	1.65	354 75
18–2	130	15	1.950	90	1.33	120 00	1.25	112 50
	a795	b11.76	a9.347	a580	b1.24	a718 00	b1.59	a921 75
6–4	200	10	2,000	114	c1.20	136 80	2.25	256 50
14–4	300	8	2,400	250	1.00	250 00	.90	225 00
24–4	114	3	342	90	1 00	90 00	1.00	90 00
	a614	b7.72	a4,742	a454	b1.05	a476 80	b1.26	a571 50
2–5	167	12	2,004	75	1.00	75 00	.30	22 50
9–5	85	10	850	53	1.00	53 00	1 00	53 00
18–5	95	10	950	40	c1.20	48 00	1 45	58 00
20–5	80	7	560	67	1.00	67 00	1.25	83 75
28–5	60	4	240	37	.50	18 50	1 90	70 30
	a487	b9.45	a4,604	a272	b.96	a261 50	b1 057	a287 55
16–6	630	22	13.860	370	2.64	976 80	1.00	370 00
41–6	480	13.60	6 528	320	1 65	528 00	1.12	358 40
44–6	110	10	1,100	110	.96	105 60	1.35	148 50
51–6	688	20	13,760	566	2.00	1,132 00	1.15	650 90
	a1,908	b18.47	a35,248	a1,366	b2.008	a2.742 40	b1.118	a1,527 80
1–7	200	10	2,000	125	1.25	156 25	1.50	187 50
12–7	.....	4	.....	60	1 00	60 00	1.50	90 00
14–7	100	10	1,000	15	1.00	15 00	1.75	26 25
16–7	101	8	808	71	.50	35 50	1.75	124 25
	a401	b9.50	a3,808	a271	b.984	a266.75	b1.579	a428 00
17–8	650	10	6,500	300	1.00	300 00	2.00	600 00

aTotals for counties. bAverages for counties. cEstimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Am't Seed Pr Acre.	Total Seed Bushels.	Value Seed Per Acre.	Value Seed Per Bushel.	Total Value of Seed.	Cost of Seeding Per Acre.	Total Cost of Seeding.	Hail Insurance Per Acre.
7-1	1.50	150	.85	.567	$ 85 00	.20	$ 20 00	.....
14-1	1.50	180	.90	.60	108 00	.50	60 00	.....
	b1.50	a330	b.877	b 585	a193 00	b.363	a80 00	.....
5-2	1.25	81	.90	.72	58 50	35	22 75	.....
9-2	1.50	315	.90	.60	189 00	.50	105 00	.....
15-2	1.50	323	.85	.567	182 75	.75	161 25	.12
18-2	1.50	135	.96	.64	86 40	.35	86 40	.27
	b1.47	a854	b.891	b.605	a516 65	b.647	a375 40	b.164
6-4	1.50	171	.825	.55	94 05	.25	28 50	.....
14-4	1.50	375	.70	.467	175 00	.25	62 50	.....
24-4	1.50	135	.75	.50	67 50	.20	18 00	.....
	b1.50	a681	b.741	b.494	a336 55	b.24	a109 00	.....
2-5	1.33	100	.66	.495	49 50	.07	5 25	.....
9-5	1.50	80	.705	.47	37 36	.60	31 80	.....
18-5	1.50	60	.75	.50	30 00	.30	12 00	.....
20-5	1.25	84	.56	.448	37 52	.60	40 20	.....
28-5	1.50	55	.75	.50	27 75	.10	3 70	.....
	b1.39	a379	b.67	b.481	a182 13	b 341	a92 95	.....
16-6	1.50	555	.90	.60	333 00	.20	74 00	.....
41-6	1.50	480	.90	.60	288 00	.25	80 00	.....
44-6	1.50	165	.75	.50	82 50	.20	22 00	.....
51-6	1.50	849	.90	.60	509 40	.30	169 80	.15
	b1.50	a2 049	b.888	b.592	a1,212 90	b.253	a345 80	b.15
1-7	1.50	188	.80	.533	100 00	.75	93 75	.....
12-7	1.50	90	.75	.50	45 00	.30	18 00	.....
14-7	1.50	22	.90	.60	13 50	.25	3 75	.....
16-7	1.50	107	.80	.533	56 80	.45	31 95	.....
	b1.50	a407	.794	.529	a215 30	b.544	b147 45	.....
17-8	b1.50	450	.90	.60	270 00	.35	145 00	.....

aTotals for counties. bAverages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Total Cost of Hail Insurance.	Cutting and Binding Per Acre.	Total Cost of Cutting and Binding.	Shocking Per Acre.	Total Cost of Shocking.	Stacking Per Acre.	Total Cost of Stacking.
7–1	.....	$ 0 85	$ 85.80	$0.10	$ 10 00	.....	$.....
14–1	.....	75	90.00	.20	24 00	.....	.....
	.....	.....	a175.00	b.795	a34 00	.....	.....
5–2	.....	64	41.60	.25	16 25	.....	.....
9–2	.....	1 00	210.00	.25	52 50	.....	.....
15–2	$ 25 80	85	182.75	.24	51 60	.....	.....
18–2	24 30	88	79.20	.17	15 30	.....	.....
	a50 10	b 885	a513.55	b.234	a135 65	.....	.....
6–4	.....	75	85.50	.25	28 50	.....	.....
14–4	.....	48	120 00	.135	33 75	.....	.....
24–4	.....	1 00	90 00	.16	14 40	$ 0.30	27 00
	.....	b651	a295 50	b.169	a76 65	b 30	a27 00
2–5	.....	60	45 00	.12	9 00	.30	22 50
9–5	.....	78	41 34	.30	15 90	.50	26 50
18–5	.....	75	30 00	.15	6 00	.40	16 00
20–5	.....	94	62 98	.10	6 70	.45	30 15
28–5	.....	93	34 41	.15	5 55	.50	18 50
	.....	b782	a213 73	b.159	a43 15	b.418	a113 65
16–6	.....	1 00	370 00	.15	55 50	.....	.....
41–6	.....	55	176 00	.20	64 00	.....	.....
44–6	.....	80	88 00	.125	13 75	.55	60 50
51–6	84 90	95	537 70	.15	84 90	.....	.....
	a84 90	b858	a1,171 70	b.160	a218 15	b.55	a60 50
1–7	.....	93	116 25	.17	21 25	.80	100 00
12–7	.....	75	45 00	.25	15 00	.60	36 00
14–7	.....	1 00	15 00	.20	3 00	.60	9 00
16–7	.....	60	42 60	.15	10 65	.75	53 25
	.....	b808	a218 85	b.184	a49 90	b.732	a198 25
17–8	.....	70	210 00	.15	45 00	.40	120 00

a Totals for counties. b Averages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR RROADCAST SEEDERS AND BINDERS.

No.	Threshing Per Acre.	Total Cost of Threshing.	Average Yield Per Acre.	Storing Per Acre.	Total Cost of Storing.	Total Product—Bushels.	Miles to Market.	Bushels-Miles—Product.
7-1	$0 .71	$ 71 00	7	.....	.....	700	1.5	1,050
14-1	.75	90 00	6	.....	.....	720	2	1,440
	b.732	a161 00	b6.45	.....	.....	a1,420	b1.8	a2,490
5-2	1,80	117 00	18	.....	.....	1,170	15	17,550
9-2	1.40	294 00	14	.....	.....	2,940	3	8,820
15-2	2.09	449 35	19.75	.....	.....	4,246	6	25 476
18-2	1.20	108 00	14	$0 .28	$ 25.20	1.260	18	22,680
	b1.67	a968 35	b16.58	b.28	a25.20	a9,616	b7.75	a74,526
6-4	.80	91 20	10	.....	.....	1,140	2.5	2,850
14-4	.95	237 50	10	.....	.....	2,500	7.5	18.750
24-4	.50	57 00	7	.....	.....	630	3	1,890
	b.85	a385 70	b9.41	.....	.....	a4,270	b5.5	a23,490
2-5	.75	56 25	10	.....	.....	750	.....	.....
9-5	1.85	98 05	12	.....	.....	636	15	9,540
18-5	.80	32 00	10	.10	4.00	400	22	8,800
20-5	1.08	72 36	12	.12	8.04	804	28	22,512
28-5	.80	29 60	10	.....	.....	370	18	6,660
	b1.06	a288 26	b10.88	b.113	a12.04	a2,960	b21.5	a47,512
16-6	1.25	462 50	13.25	.....	.....	4,902	5	24,510
41-6	1.15	368 00	8	.15	48.00	2,560	7.5	19,200
44-6	.63	69 30	10.5	.....	.....	1,155	9	10.395
51-6	1.00	566 00	10	.....	.....	5,660	2	11,320
	b1.073	a1,465 80	b10.45	b.15	a48.00	a14,277	b4.6	a65,425
1-7	.92	115 00	18	.....	.....	2,225	6	13,560
12-7	1.50	90 00	20	.....	.....	1,200	12	14,400
14-7	1.00	15 00	15	.....	.....	225	.5	112
16-7	1.20	85 20	18	.....	.....	1,278	12	15,336
	b1 126	a305 20	b18.28	.....	.....	a4,953	b8.75	a43,348
17-8	.53	159 00	7	.....	.....	2,100	1.5	3,150

aTotals for counties. bAverages for counties. cEstimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND BINDRRS.

No.	Cost to Market—Per Acre.	Total Cost to Market Crop.	Other Expn's Per Acr	Total Other Expens's.	Total Cost Per Acre.	Total Cost of Crop.	Total Cost Per Bushel.
7-1	$ .07	$ 7 00	$.....	$....	$6 03	$ 603 00	$ .861
14-1	.06	7 20	.....	.....	5 81	697 20	.968
	b.065	a14 20	.....	.....	b5 91	a1,300 20	b.915
5-2	.70	45 50	.....	.....	8 14	529 10	.452
9-2	.28	58 80	.....	.....	7 03	1,476 30	.502
15-2	.79	169 85	.....	.....	8 54	1,836 10	.432
18-2	1.12	100 80	.....	.....	7 81	702 90	.558
	b.646	a374 95	.....	.....	b7 835	a4,544 40	b.473
6-4	.20	22 80	.....	.....	6 525	743 85	.6525
14-4	.30	75 00	.....	.....	4 715	1,178 75	.4715
24-4	.14	12 60	.....	.....	5 05	454 50	.721
	b.243	a110 40	.....	.....	b5 236	a2,377 10	.557
2-5	.....	.....	.....	.....	3 80	285 00	.38
9-5	.72	38 16	.....	.....	7 455	395 11	.621
18-5	1.50	60 00	.....	.....	7 40	296 00	.663
20-5	1.20	80 40	.....	.....	7 30	489 10	.608
28-5	1.00	37 00	.....	.....	6 63	245 31	.663
	b1.094	a215 56	.....	.....	b6 289	a1,710 52	.577
16-6	.50	185 00	.10	32 00	7 64	2,826 80	.577
41-6	.15	48 00	.....	.....	6 22	1,990 40	.7775
44-6	.50	55 00	.....	.....	5 865	645 15	.559
51-6	.20	113 20	.....	.....	7 10	4,018 60	.68
	b.294	a401 20	b.10	a32 00	b6 941	a9,480 95	b.671
1-7	.44	55 00	.....	.....	7 56	945 00	.42
12-7	.25	15 00	.50	30 00	7 60	456 00	.38
14-7	.15	2 25	.....	.....	6 85	102 75	.457
16-7	.90	63 90	.....	.....	7 10	507 10	.394
	b.502	a136 15	b.50	a30 00	b7 42	a2,010 85	b.406
17-8	.10	30 00	.....	.....	6 18	1,854 00	.883

aTotals for counties. bAverages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Acres in Farm.	Value per Acre.	Total Value.	Acres in Wheat.	Rent per Acre.	Total Rent.	Plowing per Acre.	Total Cost of Plowing.
1-9	140	$ 8	$ 1,120	90	$1 00	$ 90 00	$1 25	$ 112 50
3-9	1,120	10	11,200	400	90	360 00	1 50	600 00
7-9	600	10	6,000	400	1 00	400 00	2 00	800 00
8-9	600	10	6,000	300	1 00	300 00	1 40	420 00
10-9	150	8	1,200	110	75	82 50	1 40	154 00
13-9	125	6	750	125	1 00	125 00	1 50	187 50
17-9	200	8	1,600	100	c96	96 00	1 00	100 00
	a2,935	b9 50	a27,870	a1,525	b953	a1,453 50	b1 557	a2,374 00
10-10	285	5	1,425	120	1 00	120 00	1 25	150 00
16-10	120	10	1,200	80	1 00	80 00	2 00	160 00
	a405	b6 48	a2,625	a200	b1 00	a200 00	b1 55	a310 00
2-11	95	7	665	60	1 00	60 00	1 25	75 00
17-11	350	10	3,500	135	1 00	135 00	1 75	236 25
18-11	60	13	780	12	c1 56	18 72	1 50	18 00
	a505	b9 79	a4,945	a207	b1 032	a213 72	b1 639	a329 25
6-12	400	25	10,000	300	2 00	600 00	1 50	450 00
20-12	240	20	4,800	200	2 00	400 00	1 00	200 00
46-12	90	15	1,350	c80	1 60	128 00	2 00	160 00
57-12	200	14	28,000	130	1 50	195 00	2 00	260 00
	a930	b20 38	a18,950	a710	b1 863	a1,323 00	b1 507	a1,070 00
21-13	400	10	4,000	160	c1 20	192 00	1 50	240 00
1-15	.....	.....	.....	c100	75	75 00	1 00	100 00
2-19	22	4 40	97	10	75	7 50	75	7 50
5-19	56	6	336	56	75	42 00	1 75	98 00
	a 78	b5 55	a433	a66	b75	a49 50	b1 60	a105 50
1-20	60	8	480	40	50	20 00	2 00	80 00
3-20	55	2 50	138	25	50	12 50	1 50	37 50
	a115	b5 37	a618	a65	b50	a 32 50	b1 808	a117 50

a Totals for counties. b Averages for counties. c Estimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Amount Seed Per Acre.	Total Seed—Bushels.	Value Seed Per Acre.	Value of Seed Per Bushel.	Total Value of Seed.	Cost of Seeding Per Acre.	Total Cost of Seeding.	Hail Ins. Per Acre.
1-9	c1.25	112	$ .75	$ .60	$ 67.50	$.20	$ 18.00	.....
3-9	1.25	500	.65	.52	260.00	.25	100.00	.25
7-9	1.50	600	.90	.60	360.00	.30	120.00	.38
8-9	1.375	413	.825	.60	247.50	.50	150.00	.....
10-9	1.625	179	.80	.492	88.00	.40	44.00	.....
13-9	1.50	187	.85	.567	106.25	.25	31.25	.....
17-9	1.25	125	.75	.60	75.00	.33	33.00	.....
	b1.387	a2,116	b.79	b.569	a1,204.25	b.325	a496.25	b.315
10-10	1.50	180	.60	.40	72.00	.50	60.00	.....
16-10	1	80	.50	.50	40.00	.50	40.00	.....
	b1.3	a260	b.56	b.431	a112.00	b.50	a100.00	.....
2-11	1.25	75	.69	.552	41.40	.65	39.00	.....
17-11	1.50	203	.90	.60	121.50	.75	101.25	.....
18-11	1.50	18	1.05	.70	12.60	.60	7.20	.....
	b1.43	a296	b.848	b.593	a175.50	b.712	a417.45	.....
6-12	1.25	375	1.00	.80	300.00	.50	150.00	.....
20-12	1.50	300	.90	.60	180.00	.50	50.00	.....
46-12	1.50	120	.70	.467	56.00	.25	20.00	.....
57-12	1.50	195	.75	.50	97.50	.50	65.00	.....
	b1.39	a990	b.892	b.64	a633.50	b.401	a285 00	.....
21-13	1.50	240	.75	.50	180.00	.25	40.00	.....
1-15	1.50	150	.90	.60	90.00	.30	30.00	.15
2-19	1.50	15	.60	.40	6.00	.20	2.00	.....
5-19	1.50	84	.60	.40	33.60	.20	11.20	.....
	b1.50	a99	b.60	b.40	a39.60	b.20	a13.20	.....
1-20	1.50	60	.75	.50	30.00	.25	10.00	.....
3-20	1.25	31	.65	.52	16.25	.30	7.50	.....
	b1.40	a91	b.712	b.508	a46.25	b.269	a 17.50	.....

aTotals for counties. bAverages for counties. cEstimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Total Cost of Hail Ins.	Cutting and Binding Per Acre.	Total Cost of Cutting and Binding.	Shocking —Per Acre.	Total Cost of Shocking.	Stacking —Per Acre.	Total Cost of Stacking.
1-9	.....	$ .75	$ 67.50	$0.15	$ 13.50	.....	.....
3-9	$100.00	.70	280.00	.10	40.00	.....	.....
7-9	152.00	.60	240.00	.15	60.00	.....	.....
8-9	.....	.95	285.00	.15	45.00	.....	.....
10-9	.....	.70	77.00	.25	27.50	.....	.....
13-9	.....	.60	75.00	.15	18.75	.....	.....
17-9	.....	.60	60.00	.25	25.00	.....	.....
	a252.00	b.711	a1,084.50	b.151	a229.75	.....	.....
10-10	.....	1.00	120.00	.18	21.60	.60	$ 72.00
16-10	.....	.90	72.00	.10	8.00	.40	32.00
	.....	b.96	a192.00	b.148	a29.60	b.52	a104 00
2-11	.....	.70	42.00	.15	9.00	.60	36.00
17-11	.....	1.00	135.00	.25	33.75	.....	.....
18-11	.....	1.00	12.00	.18	2.16	.....	.....
	.....	b.913	a189.00	b.217	a44.91	b.60	a36.00
6-12	.....	1.00	300.00	.20	60.00	.75	225.00
20-12	.....	.75	150.00	.25	50.00	.....	.....
46-12	.....	1 00	80.00	.20	16.00	.....	.....
57-12	.....	1.00	130.00	.25	32.50	.50	65.00
	.....	b.93	a660.00	b.223	a158.50	b.674	a290 00
21-13	.....	1.00	160.00	.20	32.00	.....	.....
1-15	15.00	.75	75.00	.15	15.00	.40	40 00
2-19	.....	1.00	10.00	.15	1.50	.....	.....
5-19	.....	.90	50.40	.10	5.60	.70	39.20
	.....	b.915	a60.40	b.108	a7.10	b.70	a39.20
1-20	.....	1.00	40.00	.20	8.00	.25	10.00
3-20	.....	.75	18.75	.20	5.00	.50	12.50
	.....	b.904	a58.75	b.20	a13.00	b.346	a22.50

aTotals for counties. bAverages for counties.

COST OF PRODUCING WHEAT FOR 1893--*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Threshing Per Acre.	Total Cost of Threshing.	Storing Per Acre.	Total Cost of Storing.	Average Yield Per Acre.	Total Product, Bushels.	Miles to Market.
1-9	$ 1.45	$130.50	.....	.....	13	1,170	10
3-9	1.60	640.00	.....	.....	16	6,400	2
7-9	2.00	800.00	.....	.....	18	7,200	4
8-9	1.55	465.00	.10	30.00	14	4,200	3
10-9	.75	82.50	.....	.....	6	660	10
13-9	.50	62.50	.....	.....	5	625	16
17-9	1.32	132.00	.....	.....	11	1,100	15
	b1.516	a2,312.50	b.10	a30.00	b14	a21,355	b4.6
10-10	1.00	120.00	.20	24.00	12	1,440	45
16-10	.90	72.00	.....	.....	7.5	600	30
	b.96	a192.00	b.20	a24.00	b10.2	a2,040	b40.6
2-11	.70	42.00	.....	.....	10	600	4
17-11	1.20	162.00	.....	.....	12	1,620	20
18-11	1.50	18.00	.....	.....	15	180	22
	b1.072	a222.00	.....	.....	b11.6	a2,400	b16.15
6-12	1.00	300.00	.....	.....	12	3,600	4
20-12	1.50	300.00	.....	.....	15	3,000	10
46-12	1.50	120.00	.....	.....	14	1,120	c3
57-12	.77	100.10	.11	14.30	11	1,430	8
	b1.155	a820.10	b.11	a14.30	b12.9	a9,150	b6.47
21-13	1.30	208.00	.....	.....	13	2,080	20
1-15	.40	40.00	.....	.....	6	600	10
2-19	1.00	10.00	.....	.....	8.5	85	11
5-19	1.44	80.64	.....	.....	9	504	30
	b1.373	a90.64	.....	.....	b8.92	a589	b27.26
1-20	.75	30.00	.....	.....	8	320	40
3-20	.50	12.50	.....	.....	3	75	.....
	b.654	a42.50	.....	.....	b6.08	a395	b40

aTotals for counties. bAverages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Bushel-Miles —Product.	Cost to Market, Pr Acre	Total Cost to Market Crop.	Other Expenses Per Acre.	Total Other Expenses.	Total Cost Per Acre.	Total Cost of Crop.	Cost Per Bushel.
1-9	11,700	$.65	$ 58 50	....	....	$6 20	$ 558 00	$ .477
3-9	12,800	.20	80 00	....	....	6 15	2,460 00	.384
7-9	28,800	.54	216 00	....	....	7 87	3.148 00	.437
8-9	12,600	.40	120 00	....	....	6 875	2,062 50	.491
10-9	6 600	.30	33 00	....	....	5 35	588 50	.892
13-9	10,000	.25	31 25	....	....	5 10	637 50	1.02
17-9	16,500	.77	77 00	....	....	5 98	598 00	.544
	a99,000	b.404	a615 75	....	....	b6 592	a10,052 50	b.471
10-10	64,800	1 80	216 00	....	....	8 13	975 60	.675
16-10	18,000	.75	60 00	....	....	7 35	588 00	.98
	a82,800	b1.38	a276 00	....	....	b7 818	a1,563 60	b.766
2-11	2,400	.20	12 00	....	....	5 94	356 40	.594
17-11	32.400	1.20	162 00	....	..	8 05	1,086 75	.671
18-11	3 960	.75	9 00	....	....	8 14	97 68	.543
	a38,760	.b884	a183 00	....	....	b7 444	a1 540 83	b.642
6-12	14.400	.40	120 00	....	....	8 35	2 505 00	.696
20-12	30,000	.50	100 00	....	....	7 15	1 430 00	.477
46-12	3,360	.42	33 60	....	....	7 67	613 60	.548
57-12	11,440	.44	57 20	....	....	7 82	1,016 60	.711
	a59,200	b.438	a310 80	....	....	b7 838	a5565 20	.608
21-13	41,600	1.04	166 40	....	....	7 24	1,158 40	.557
1-15	6,000	.36	36 00	....	....	5 01	501 00	.835
2-19	935	.40	4 00	....	....	4 85	48 50	.571
5-19	15,120	1.125	63 00	....	....	8 365	468 44	.929
	a16,055	b1.015	a67 00	....	....	b7 832	a516 94	b.877
1-20	12,800	.80	32 00	....	....	6 50	260 00	.812
3-20	.....	.....	.....	....	....	4 90	122 50	1.633
	a12,800	b.80	a32 00	....	....	b5 884	a382 50	.978

a Totals for counties. b Averages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Acres in Farm.	Value Per Acre.	Total Value.	Acres in Wheat.	Rent Per Acre.	Total Rent.	Plowing Per Acre.	Total Cost of Plowing.
8-21	98	$ 6 00	$ 588	100	$ .50	$ 50 00	$1 25	$ 125 00
10-21	50	4 00	200	43	.50	21 50	1.50	64 50
15-21	150	8 00	1,200	100	1.25	125 00	1.80	180 00
21-21	.....	.....	.....	20	1.00	40 00	1.75	35 00
28-21	100	8 00	800	50	1.00	50 00	1.75	87 50
	a398	b7 00	a2,788	a313	b.915	a286 50	b1.572	a492 00
6-22	40	8 00	320	35	.50	17 50	1 00	35 00
13-22	125	8 00	1,000	75	1.46	109 50	2 00	150 00
24-22	200	10 00	2,000	100	1.00	100 00	1.50	150 00
	a365	b9 10	a3,320	a210	b1.081	a227 00	b1.595	a335 00
2-23	c300	4 00	1,200	256	1.00	256 00	1 25	320 00
3-23	80	10 00	800	30	1.00	30 00	1.50	45 00
	a380	b5 26	a2,000	a286	b1.00	a286 00	b1.276	a365 00
22-24	80	10 00	800	64	2.00	128 00	1.50	96 00
38-24	200	20 00	4,000	150	1.50	225 00	1 50	225 00
	a280	b17 14	a4,800	a214	b1.65	a353 00	b1.50	a321 00
7-26	285	9 00	2,565	185	1.00	185 00	1.45	268 25
16-26	100	6 00	600	90	1.00	90 00	1.75	157 50
17-26	104	6 00	624	95	1.00	95 00	1.75	166 25
	a489	b7 75	a3,789	a370	b1.00	a370 00	b1.60	a592 00
15-27	120	12 00	1,440	85	1.50	127 50	1 25	106 25
16-27	120	10 00	1,200	100	c1.20	120 00	1.00	100 00
	a240	b11 00	a2,640	a185	b1.338	a247 50	b1.115	a206 25
17-28	345	20 00	6,900	265	1.50	397 50	1 50	397 50
18-28	130	13 00	1,690	105	1.56	163 80	1.25	131 25
22-28	380	20 00	7,600	305	1.50	457 50	1.50	457 50
29-28	410	25 00	10,250	300	2 50	750 00	1.00	300 00
	a1,265	b20 91	a26,440	a975	b1.814	a1,768 80	b1.319	1,286 25

aTotals for counties. bAverages for counties. cEstimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Am't Seed Pr Acre.	Total Seed Bushels.	Value Seed Per Acre.	Value Seed Per Bushel.	Total Value of Seed.	Cost of Seeding Per Acre.	Total Cost of Seeding.	Hail Insurance Per Acre.
8-21	1.50	150	$0.75	$ .50	$ 75 00	.40	$ 40 00	.28
10-21	1.30	56	.65	.503	27 95	.50	21 50	.25
15-21	1.25	125	.67	.536	67 00	.14	14 00	.....
21-21	1.50	30	.75	.50	15 00	.15	3 00	.....
28-21	2.00	100	1.00	.50	50 00	.05	2 50	.....
	b1.47	a461	b.751	b 51	a234 95	b.259	a81 00	b.271
6-22	1.50	52	.72	.48	25 30	.20	7 00	.....
13-22	1.50	113	.72	.48	54 00	.30	22 50	.....
24-22	1.50	150	.90	.60	90 00	.25	25 00	.....
	b1.5	a315	b.806	b.537	a169 20	b.26	a54 50	.....
2-23	1.50	384	.75	.50	192 00	.30	76 80	.....
3-23	1.50	45	.75	.50	22 50	.60	18 00	.....
	b1.5	a.429	b.75	b.50	a214 50	b.331	a94 80	.....
22-24	1.25	80	.63	.504	40 32	.50	32 00	.....
38-24	1.75	262	.90	.514	135 00	.15	22 50	.....
	b1.6	a342	b.819	b.512	a175 32	b.255	a54 50	.....
7-26	1.25	231	.65	.52	120 25	.45	83 25	.14
16-26	1.75	158	.87	.497	78 30	.40	36 00	.....
17-26	c1.50	142	.75	.50	71 25	.50	47 50	.....
	b1.44	a531	b.729	b.508	a269 80	b.451	a166 75	b.14
15-27	1.50	128	.90	.60	76 50	.50	42 50	.....
16-27	1.50	125	.65	.52	65 00	.35	35 00	.....
	b1.37	a253	b.765	.563	a141 50	b.419	b77 50	.....
17-28	1.50	397	.90	.60	238 50	.25	66 25	.....
18-28	1.50	158	.84	.56	88 20	.30	31 50	.....
22-28	1.75	534	.93	.53	283 65	.25	76 25	.....
29-28	c1.25	375	.75	.60	225 00	.20	60 00	.....
	b1.5	a1,464	b.857	b.571	a835 35	b.24	a234 95	.....

aTotals for counties. bAverages for counties. cEstimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Total Cost of Hail Insurance.	Cutting and Binding Per Acre.	Total Cost of Cutting and Binding.	Shocking Per Acre.	Total Cost of Shocking.	Stacking Per Acre.	Total Cost of Stacking.
8–21	$ 28 00	$ 0.95	$ 95 00	$0.15	$ 15 00	$0.45	$ 45 00
10–21	10 75	.95	40 85	.15	6 45	.35	15 05
15–21	.....	.75	75 00	.10	10 00	.40	40 00
21–21	.....	1.00	20 00	.10	2 00	.45	9 00
28–21	.....	1.00	50 00	.25	12 50	1.00	50 00
	a38 75	b.897	a280 85	b.147	a45 95	b.508	a159 05
6–22	.....	.44	15 40	.20	7 00	.60	21 00
13–22	.....	.89	66 75	.25	18 75	.....	.....
24–22	.....	.75	75 00	.25	25 00	.....	.....
	.....	b.748	a157 15	b.241	a50 75	b.60	a21 00
2–23	.....	.95	243 20	.30	76 80	.48	122 88
3–23	.....	1.05	31 50	.15	4 50	.40	12 00
	.....	b.96	a274 70	b.284	a81 30	b.472	a134 88
22–24	.....	.75	48 00	.20	12 80	.75	48 00
38–24	.....	1.00	150 00	.25	37 50	.75	112 50
	.....	b.925	a198 00	b.235	a50 30	b.75	a160 50
7–26	25 90	.90	166 50	.20	37 00	.....	.....
16–26	.....	1.00	90 00	.25	22 50	.....	.....
17–26	.....	1.00	95 00	.25	23 75	.....	.....
	a25 90	b.95	a351 50	b.225	a83 25	.....	.....
15–27	.....	.85	72.25	.12	10 20	.20	17 00
16–27	.....	.75	75.00	.20	20 00	.....	.....
	.....	b.796	a147 25	b.163	a30 20	b.20	a17 00
17–28	.....	.95	251 75	.15	39 75	.30	79 50
18–28	.....	.75	78 75	.15	15 75	.45	47 25
22–28	.....	.70	213 50	.20	61 00	.60	183 00
29–28	.....	.50	150 00	.20	60 00	.30	90 00
	.....	b.712	a694 00	b.171	a166 50	b.41	a399 75

aTotals for counties. bAverages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Threshing—Per Acre.	Total Cost of Threshing.	Storing—Per Acre.	Total Cost of Storing.	Average Y'ld Per Acre.	Total Product—Bushels.	Miles to Market.
8-21	$0.56	$ 56 00	.....	.....	7	700	15
10-21	1.00	43 00	.....	.....	5.5	236	12
15-21	.72	72 00	.....	.....	9	900	2
21-21	.60	12 00	.....	.....	9	180	7
28-21	.315	15 75	.....	.....	4.75	238	7
	b.635	a198 75	.....	.....	b7.2	a2,254	b8.17
6-22	1.04	36 40	.....	.....	15	525	20
13-22	.685	51 37	$ 0.19	$ 14 25	10.75	806	30
24-22	1.00	100 00	.....	.....	10	1,000	22
	b.894	a187 77	b.19	a14 25	b11.15	a2,331	b24.32
2-23	1.03	263 68	.....	.....	13.25	3,392	18
3-23	1.55	46 50	.....	.....	14.67	440	35
	b1.085	a310 18	.....	.....	b13.40	a3,832	b19.95
22-24	.80	51 20	.....	.....	8	512	4
38-24	1.20	180 00	.80	120 00	20	3,000	7
	b1.08	a231 20	b.80	a120 00	b16.41	a3,512	b6.56
7-26	1 10	203 50	.18	33 30	13.25	2 451	3.5
16-26	1.28	115 20	.....	.....	13	1,170	.....
17-26	1.30	123 50	.....	.....	13.75	1,306	.....
	b1.195	a442 20	b.18	a33 30	b13.32	a4,927	.....
15-27	.39	33 15	.....	.....	6.5	553	6
16-27	.50	50 00	.....	.....	5	500	.....
	b 449	a83 15	.....	.....	b5.69	a1,053	.....
17-28	1.15	304 75	.14	37 10	14	3,710	6
18-28	.65	68 25	.....	.....	11	1,155	8
22-28	.55	167 75	.....	.....	10	3,050	4
29-28	.60	180 00	.....	.....	8	2,400	4.5
	b.739	a720 75	b.14	a37 10	b10.57	a10,315	b5.28

a Totals for counties. b Averages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Bushel-Miles --Product.	Cost to Market, Pr Acre	Total Cost to Market Crop.	Other Expenses Per Acre.	Total Other Expenses.	Total Cost Per Acre.	Total Cost of Crop.	Cost Per Bushel.
8-21	10,500	$.49	$ 49 00	....	....	$5 78	$ 578 00	$ .826
10-21	2,832	.25	10 75	....	....	6 10	262 30	1.109
15-21	1,800	.09	9 00	....	....	5 92	592 00	.658
21-21	1,620	.45	9 00	....	....	6 50	130 00	.722
28-21	1,666	.13	6 50	....	....	6 495	324 75	1.367
	a18,418	b.269	a84 25	....	....	b6 029	a1,887 05	b.837
6-22	10,500	1.20	42 00	....	....	5 90	206 50	.393
13-22	24,180	1.00	75 00	....	....	7 495	562 13	.697
24-22	22,000	1.00	100 00	....	....	6 65	665 00	.665
	a56,680	b1.033	a217 00	....	....	b6 827	a1,433 63	b.615
2-23	61,056	1.00	256 00	....	....	7 06	1,807 36	.534
3-23	15,400	1.40	42 00	....	....	8 40	252 00	.573
	a76,456	b1.042	a298 00	....	....	b7 20	a2,059 36	b.537
22-24	2,048	.25	16 00	....	....	7 38	472 32	.92
38-24	21,000	.80	120 00	....	..	8 85	1,327 50	.442
	a23,048	b.636	a136 00	....	....	b8 41	a1,799 82	b.512
7-26	8,579	.35	64 75	....	....	6 42	1,185 70	.485
16-26	.....	.78	70 20	....	....	7 33	659 70	.564
17-26	.....	.83	78 85	....	....	7 38	701 10	.537
	a8,579	b.578	a213 80	....	....	b6 888	a2,548 50	b.517
15-27	3,318	.24	20 40	....	....	5 95	505 75	.915
16-27	.....	....	.....	....	....	4 65	465 00	.93
	a3,318	b.24	a20 40	....	....	b5 247	a970 75	.922
17-28	22,260	.43	113 95	....	....	7 25	1,921 25	.516
18-28	9,240	.55	57 75	....	....	6 50	682 50	.591
22-28	12,200	.225	68 62	....	....	6 125	1,868 12	.612
29-28	10,800	.20	60 00	....	....	6 25	1,875 00	.781
	a54,500	b.308	a300 32	....	....	b6 51	a6,346 87	b.615

a Totals for counties. b Averages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Acres in Farm.	Value Per Acre.	Total Value	Acres in Wheat	Rent Per Acre.	Total Rent.	Plowing Per Acre.	Total Cost of Plowing.
2-29	200	$ 5	$ 1,000	150	$1.00	$ 150 00	$1.25	$ 187 50
6-29	100	4	400	80	c.48	38 40	2.50	200 00
7-29	110	12	1,320	85	1.00	85 00	2.25	191 25
10-29	200	6	1,200	150	1.00	150 00	1.70	255 00
12-29	80	5	400	30	c 60	18 00	2.00	60 00
15-29	170	3	510	150	c.36	54 00	1.75	262 50
17-29	150	10	1,500	90	1.25	112 50	1.75	157 50
20-29	500	12	6,000	190	1.25	237 50	1.50	285 00
	a1,510	b8.17	a12,330	a925	b.914	a845 40	b1.728	a1,598 75
3-30	500	15	7,500	400	1 00	400 00	1.25	500 00
9-30	160	12	1,920	125	c1.44	180 00	1.10	137 50
10-30	113	15	1,695	103	1.50	154 50	1.25	128 75
12-30	160	15	2,400	100	1.00	100 00	1.75	175 00
15-30	500	15	7,500	300	1.50	450 00	1.00	300 00
18-30	417	12	5,004	362	1.25	452 50	1.75	633 50
20-30	120	10	1,200	100	1.00	100 00	1.00	100 00
30-30	700	12	8,400	400	1.50	600 00	1.75	700 00
	a2 670	b13.34	a35,619	a1,890	b1.289	a2,437 00	b1.415	a2,674 75
1-31	60	10	600	30	c1 20	36 00	1.60	48 00
12-31	60	8	480	30	.50	15 00	2.00	60 00
14-31	150	7	1,050	100	1.00	100 00	1.50	150 00
	a270	b7.88	a2,130	a160	b9.43	a151 00	b1.6125	a258 00
4-32	575	15	8,625	430	1.50	645 00	1.50	645 00
13-32	780	20	15,600	466	2.00	932 00	2.25	1,048 50
16-32	350	15	5,250	240	1.75	420 00	1.75	420 00
	a1,705	b17.29	a29,475	a1,136	b1.758	a1,997 00	b1.86	a2,113 5
8-33	2,000	5	10,000	1,500	1.00	1,500 00	1.75	2,625 00
1-34	150	10	1,500	150	c1.20	180 00	2.00	300 00
5-34	85	10	850	80	1.00	80 00	1.50	120 00
	a235	b10.00	a2,350	a230	b1.13	a260.00	b1.826	a420 00
5-35	90	20	1.800	65	c2.40	156 00	1.75	113 75
30-35	400	30	12.000	265	2.52	667 80	1.50	397 50
	a490	b28.16	a13,800	a330	b2 496	a823 80	b1.549	a511 25

aTotals for counties. bAverages for counties. cEstimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Amount Seed Per Acre.	Total Seed—Bushels.	Value Seed Per Acre.	Value of Seed Per Bushel.	Total Value of Seed.	Cost of Seeding Per Acre.	Total Cost of Seeding.	Hail Ins. Per Acre.
2–29	1.50	225	$ .65	$ .433	$ 102.50	$.45	$ 67.50	.....
6–29	1.50	120	.75	.50	60.00	.30	24.00	.....
7–29	1.50	128	.75	.50	63.75	.50	42.50	.....
10–29	1.50	225	.75	.50	112.50	.40	60.00	.....
12–29	1.50	45	.90	.60	27.00	.25	7.50	.....
15–29	1.666	250	.75	.45	112.50	.25	37.50	.....
17–29	1.50	135	.75	.50	67.50	.35	31.50	.....
20–29	1.50	285	.96	.64	182.40	.75	142.50	.....
	b1.528	a1,413	b.787	b.515	a728.15	b.446	a413.00	.....
3–30	1.25	500	.75	.60	300.00	.25	100.00	.....
9–30	1.25	156	.65	.52	81.25	.30	37.50	.....
10–30	1.125	116	.70	.622	72.10	.20	20.60	.....
12–30	1.50	150	1.125	.75	112.50	.50	50.00	.....
15–30	1.50	450	.75	.50	225.00	.35	105.00	.....
18–30	1.50	543	.975	.65	352.95	.25	90.50	.....
20–30	1.25	125	.75	.60	75.00	.25	25.00	.....
30–30	1.25	500	1.00	.80	400.00	.40	160.00	.....
	b1.34	a2,540	b.857	b.637	a1,618.80	b.311	a588.60	.....
1–31	1.25	37	.62	.506	18.60	.45	13.50	.04
12–31	1.166	35	.58	.497	17.40	.56	16.80	.....
14–31	1.25	125	.75	.60	75.00	.30	30.00	.25
	b1.23	a197	b.694	b.563	a111.00	b.377	a60.30	.202
4–32	1.25	537	.65	.52	279.50	.50	215.00	.22
13–32	1.50	699	1.00	.667	466.00	.20	93.20	.15
16–32	1.50	360	.75	.50	180.00	.50	120.00	.....
	b1.40	a1,596	b.815	b.58	a925.50	b.377	a428 20	.184
8–33	1.50	2,250	.90	.60	1,350.00	.20	300.00	.....
1–34	1.50	225	.83	.553	124.50	.35	52.50	.25
5–34	1.25	100	.625	.50	50.00	.50	40.00	.....
	b1.413	a325	b.759	b.537	a174.50	b.402	a92.50	b.25
5–35	1.50	97	.85	.567	55.25	.50	32.50	.....
30–35	1.75	464	1.26	.72	333.90	.65	172.25	.....
	b1.70	a561	b1.179	b.693	a389.15	b.62	a204.75	.....

aTotals for counties. bAverages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Total Cost of Hail Ins.	Cutting and Binding Per Acre.	Total Cost of Cutting and Binding.	Shocking —Per Acre.	Total Cost of Shocking.	Stacking —Per Acre.	Total Cost of Stacking.
2-29	.....	$ .75	$ 112 50	$0.10	$ 15 00	.65	$ 97 50
6-29	.....	.70	56 00	.15	12 00	.....	.....
7-29	.....	.65	55 25	.15	12 75	.....	.....
10-29	.....	.84	126 00	.25	37 50	.85	127 50
12-29	.....	1.00	30 00	.20	6 00	.35	10 50
15-29	.....	1.00	150 00	.25	37 50	.....	.....
17-29	.....	.65	58 50	.20	18 00	.25	22 50
20-29	.....	.75	142 50	.25	47 50	.....	.....
	.....	b.79	a730 75	b.201	a186 25	b.614	a258 00
3-30	.....	1.00	400 00	.15	60 00	.....	.....
9-30	.....	1.00	125 00	.20	25 00	.....	.....
10-30	.....	.90	92 70	.15	15 45	.....	.....
12-30	.....	1.00	100 00	.20	20 00	.50	50 00
15-30	.....	1.00	300 00	.10	30 00	.....	.....
18-30	.....	.68	246 16	.135	48 87	.....	.....
20-30	.....	.85	85 00	.10	10 00	.25	25 00
30-30	.....	.90	360 00	.20	80 00	.....	.....
	.....	b.904	a1,708 86	b.153	a289 32	b.375	a75 00
1-31	$ 1.20	.41	12 30	.10	3 00	.20	6 00
12-31	.....	.65	19 50	.....	.....	.30	9 00
14-31	25.00	.75	75 00	.10	10 00	.30	30 00
	a26.25	b.6675	a106 80	b.10	a13 00	b.281	a45 00
4-32	94.60	1.00	430 00	.15	64 50	.....	.....
13-32	69.90	.60	279 60	.25	116 50	.....	.....
16-32	.....	1.00	240 00	.25	60 00	.....	.....
	a164.50	b.836	a949 60	b.212	a241 00	.....	.....
8-33	.....	.80	1,200 00	.20	300 00	.....	.....
1-34	37.50	.86	129 00	.25	37 50	.....	.....
5-34	.....	.67	53 60	.10	8 00	.80	64 00
	a37.50	b.794	a182 60	b.198	a45 50	b.80	a64 00
5-35	.....	.65	42 25	.20	13 00	.60	39 00
30-35	.....	1.00	265 00	.20	53 00	.60	159 00
		b.931	a307 25	b.20	a66 00	b.60	a198 00

aTotals for counties. bAverages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Threshing Per Acre.	Total Cost of Threshing.	Storing Per Acre.	Total Cost of Storing.	Average Yield Per Acre.	Total Product, Bushels.	Miles to Market.
2-29	$1.00	$ 150 00	.....	.....	15.	2,250	15
6-29	1.00	80 00	.....	.....	10.	800	17
7-29	1.25	106 25	.....	.....	19.5	1,657	18
10-29	1.05	157 50	.....	.....	15.	2,250	16
12-29	1.10	33 00	.....	.....	14.	420	2
15-29	1.50	225 00	$ .60	$ 90 00	12.	1,800	2
17-29	1.40	126 00	.....	.....	15.	1,350	2
20-29	1.50	285 00	.....	.....	18.	3,450	1
	b1.257	a1,162 75	b.60	a90 00	b15.08	a13,947	b8.87
3-30	1.00	400 00	.....	.....	10.	4,000	4
9-30	1 00	125 00	.....	.....	12.	1,500	7
10-30	1.10	113 30	.....	.....	10.	1,030	3.5
12-30	.85	85 00	.....	.....	14.	1,400	10
15-30	.75	225 00	.....	.....	9.	2,700	6
18-30	1.04	376 48	.....	.....	11.	3,982	.22
20-30	.30	30 00	.....	.....	3.	300	3
30-30	.90	360 00	.....	.....	9.	3,600	3
	b.907	a1,714 78	.....	.....	b9.79	a18,512	b3.94
1-31	.50	15 00	.....	.....	5.5	165	.....
12-31	.46	13 80	.....	.....	4.1	123	2
14-31	.50	50 00	.....	.....	6.	600	3
	b.4925	b78 80	.....	.....	b5.55	a888	b2.83
4-32	1.40	602 00	.15	64 50	13.5	5,805	8
13-32	1.76	820 16	.22	102 52	22.	10,252	11
16-32	1.56	374 40	.13	31 20	13.	3,120	5
	b1.581	a1,796 56	b.174	a198 22	b16.88	a19,177	b9.12
8-33	.70	1,050 00	.35	525 00	7.	10,500	7
1-34	1.65	247 50	.....	.....	15.	2,250	2.5
5-34	.85	68 00	.....	.....	13.	1,040	11
	b1.372	a315 50	.....	.....	b14.30	a3,290	5.19
5-35	.72	46 80	.....	.....	12.	780	9
30-35	1.50	397 50	.05	13 25	15.	3,975	.5
	b1.346	444 30	b.05	a13 25	b14.41	a4,755	1.89

a Totals for counties. b Averages for counties. cEstimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	No. Bushel-Miles—Product.	Cost to Market Per Acre.	Total Cost to Market.	Other Exps. Per Acre.	Total Other Expenses.	Total Cost Per Acre.	Total Cost of Crop.	Cost Per Bushel.
2-29	33,750	1.20	180.00	....	.....	7.05	1,057.50	.47
6-29	13,600	.70	56.00	....	.....	6.58	526.40	.658
7-29	29,826	1.00	85.00	....	.....	7.55	641.75	.387
10-29	36,000	1.05	157.50	....	.....	7.89	1,183.50	.526
12-29	840	.14	4.20	*.10	3.00	6.64	199.20	.474
15-29	3,600	.12	18.00	†.25	37.50	6.47	970.50	.539
17-29	2,700	.30	27.00	....	.....	6.90	621.00	.46
20-29	3,420	.18	34.20	....	.....	7.14	1,356.60	.397
	a123,736	b.607	a561.90	b.229	a40.50	b7.088	a6,556.45	b.47
3-30	16,000	.25	100.00	....	.....	5.65	2,260.00	.565
9-30	10,500	.50	62.50	....	.....	6.19	773.75	.516
10-30	3,605	.30	30.90	....	.....	6.10	628.30	.61
12-30	14,000	.70	70.00	....	.....	7.625	762.50	.545
15-30	16,200	.25	75.00	....	.....	5.70	1,710.00	.65
18-30	876	.025	9.05	‡.12	43.44	6.225	2,253.45	.566
20-30	900	.03	3.00	....	.....	4.53	453.00	1.51
30-30	10,800	.15	60.00	....	.....	6.80	2,720.00	.755
	a72,881	b.217	a410.45	.12	a43.44	b6.117	a11,561.00	b.624
1-31	.....	.....	.....	....	.....	5.12	153.60	.931
12-31	246	.08	2.40	....	.....	5.13	153.90	1.251
14-31	1,800	.15	15.00	....	.....	5.60	560.00	.933
	a2,046	b.134	a17.40	....	.....	b5.422	a867.50	b.977
4-32	46,444	.65	279.50	....	.....	7.72	3,319.60	.572
13-32	112,772	1.10	512.60	....	.....	9.53	4,440.98	.433
16-32	15,600	.26	62.40	....	.....	7.95	1,908.00	.612
	a174,812	b.752	a854.50	....	.....	b8.511	a9,668.58	b.504
8-33	73,500	.25	375.00	....	.....	6.15	9,225.00	.879
1-34	5,625	.375	56.25	§.10	15.00	7.865	1,179.75	.524
5-34	11,440	.65	52.00	....	.....	6.695	535.60	.515
	17,065	b.471	a108.25	b.10	a15.00	b7.458	a1,715.35	b.521
5-35	7,020	.48	31.20	....	.....	8.15	529.75	.679
30-35	1,987	.12	31.80	....	.....	9.40	2,491.00	.627
	a9,007	b.191	a63.00	....	.....	b9.154	a3,020.75	b.635

*Killing Gophers. †Killing Gophers and killing mustard. ‡Keeping tools in repair. §Sundries.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Acres in Farm.	Value per Acre.	Total Value.	Acres in Wheat.	Rent per Acre.	Total Rent.	Plowing per Acre.	Total Cost of Plowing.
1-36	800	$18	$ 14,400	600	$1 85	$ 1,110 00	$1 50	$ 900 00
5-36	250	20	5,000	160	2 00	320 00	1 80	288 00
26-36	200	10	2,000	160	1 00	160 00	1 25	200 00
37-36	300	15	4,500	200	2 00	400 00	2 00	400 00
38-36	160	5 75	920	90	1 00	90 00	1 00	90 00
	a1,710	b15 68	a26,820	a1,210	b1 719	a2,080 00	b1 552	a1,878 00
4-38	175	10	1,750	125	1 00	125 00	1 75	218 75
8-38	170	10	1,700	120	1 00	120 00	1 50	180 00
13-38	110	8	880	85	1 00	85 00	1 60	136 00
14-28	260	10	2,600	170	1 00	170 00	1 25	212 50
	a715	b9 69	a6,930	a500	b1 00	a500 00	b1 494	a747 25

a Totals for counties. b Averages for counties. c Estimated.

TOTALS AND AVERAGES FOR THE ENTIRE STATE.—Total acres in farms, 25,285; total value of farms, $312,561; total acres in wheat, 16,930; total rent, $22,810.67; total for plowing, $25,676.85.

Average of farms per acre, $12.36; average rent per acre, $1.347; average cost of plowing per acre, $1.517.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Amount Seed Per Acre.	Total Seed – Bushels.	Value Seed Per Acre.	Value Seed Per Bushel.	Total Value of Seed.	Cost of Seeding Per Acre.	Total Cost of Seeding	Hail Insurance Per Acre.
1-36	1.50	900	$ .90	$ .60	$ 540.00	$.80	$ 480.00	.....
5-36	1.50	240	.90	.60	144.00	.25	40.00	.....
26-36	c1.666	267	1 00	.60	160.00	.50	80.00	.....
37-36	1.75	350	1.13	.646	226.00	.40	80.00	.....
38-36	1.25	112	.63	.504	56.70	.40	36.00	.....
	b1.545	a1,869	b.931	b.603	a1,126.70	b.591	a716.00	.....
4-38	1.25	156	.65	.52	81.25	.25	31.25	$ .22
8-38	1.50	180	.75	.50	90.00	.25	30.00	.....
13-38	1.50	128	.85	.567	72.25	.25	21.25	.28
14-38	1.25	212	.65	.52	110 50	.60	102.00	.25
	b1.352	a676	b.708	b.524	a354.00	b.369	a184.50	b.247

a Totals for counties. b Averages for counties. c Estimated.

TOTALS AND AVERAGES FOR THE ENTIRE STATE.—Total amount seed used, 24,614 bushels; total value of seed, $14,226.05; total cost of seeding, $5,951.40

Average amount of seed used per acre, 1.454 bushels; average value of seed per acre, $.84; average value of seed per bushel, $.578; average cost of seeding per acre, $.352; average cost of hail insurance per acre, $.216; total acres insured against hail for State, 3,655

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Total Cost of Hail Ins.	Cutting and Binding Per Acre.	Total Cost of Cutting and Binding.	Shocking Per Acre.	Total Cost of Shocking.	Stacking Per Acre.	Total Cost of Stacking.
1-36	.....	$1.05	$ 630.00	$0.20	$ 120.00	.....	.....
5-36	.....	.90	144.00	.20	32.00	$0.75	$ 120.00
26-36	.....	.75	120.00	.25	40.00	.....	.....
37-36	.....	.90	160.00	.25	50.00	.....	.....
38-36	.....	1.00	90.00	.25	22.50	.....	.....
	.....	b.945	a1,144.00	b.219	a264.50	b.75	a120.00
4-38	$27.50	.75	93.75	.12	15.00	.25	31.25
8-38	.....	.80	96.00	.15	18.00	.....	.....
13-38	23.80	.85	72.25	.12	10.20	.....	.....
14-38	42.50	.95	161.50	.25	42.50	.....	.....
	a93.80	b.847	a423.50	b171	a85.70	b.25	a31.25

aTotals for counties. bAverages for counties.

TOTALS AND AVERAGES FOR THE ENTIRE STATE.—Total cost of hail insurance, $788 65; total cost of cutting and binding, $14,134.79. A total of 16,900 acres was shocked, at a total cost of $3,131.88; a total of 5,337 acres was stacked, at a total cost of $2,734.53.

Average cost of cutting and binding per acre, $.835; average cost of shocking per acre, $.185; average cost of stacking per acre, $.512.

COST OF PRODUCING WHEAT FOR 1893- -*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Threshing Per Acre.	Total Cost of Threshing.	Storing Per Acre.	Total Cost of Storing.	Average Yield Per Acre.	Total Product, Bushels.	Miles to Market.
1-36	$ 1.20	$720.00	.....	.....	14.875	8,925	.....
5-36	.80	128.00	$0 .15	$24.00	16	2,560	3.5
26-36	1.60	256.00	.20	32.00	20	3,200	8
37-36	1.70	340.00	.....	.....	20	4,000	10
38-36	1.80	162.00	.....	.....	18	1,620	12
	b1.327	a1,606.00	b.175	a56.00	b16.78	a20,305	b8.26
4-28	1.25	156.25	.....	.....	15	1,875	11
8-38	1.80	216.00	.....	.....	15	1,800	10
13-38	1.45	123.52	.....	.....	10	850	16
14-38	1.12	190.40	.....	.....	13	2,210	7
	b1.372	a685.90	.....	.....	b13.47	a6,735	b10.05

aTotal for counties. bAverages for counties. cEstimated.

TOTALS AND AVERAGES FOR THE ENTIRE STATE.—Total cost of threshing, $18,689.64; a total of 63,271 bushels was stored, the yield from 5,113 acres, at a total cost of $1,240.66; total product, 204,538 bushels; Miles to market, 192,397 bushel-miles, from 16,985 acres.

Average cost of threshing, per acre, $1.104; storing, per acre, $.243, or 2 cents per bushel; average yield, 12.08 bushels per acre; average miles to market, 7.75.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Bushel-Miles —Product.	Cost to Market PrAcre.	Total Cost to Market.	Other Exp'n's PrAcre.	Total Other Exp'nses.	Total Cost Per Acre.	Total Cost of Crop.	Cost Per Bushel.
1–36	.....	....	.....	*$.05	$30 00	$7.55	4,530 00	$.507
5–36	8,960	$.30	$ 48 00	....	.....	8.05	1,288 00	.503
26–36	25,600	.80	128 00	....	.....	7.35	1,176 00	.3675
37–36	40,000	1.00	200 00	....	.....	9.38	1,876 00	.469
38–36	19,440	1.08	97 20	....	.....	7.16	644 40	.398
	a94,000	b.776	a473 20	b.05	a30 00	b7.863	a9,514 40	b.469
4–38	20,625	.75	93 75	....	.....	6.99	873 75	.466
8–38	18,000	1.05	126 00	....	.....	7.30	876 00	.487
13–38	13,600	.60	51 00	....	.....	7.00	595 00	.70
14–38	15,470	.50	85 00	....	.....	6.57	1,116 90	.505
	a67,695	b.712	a355 75	....	.....	b6.923	a3,461 65	b.514

aTotals for counties. bAverages for counties. *Cutting weeds.

TOTALS AND AVERAGES FOR ENTIRE STATE.—Total bushel-miles (product of bushels multiplied by miles hauled), 1,491,897; total cost to market, 16,205 acres, $7,458.63; total other expenses, $190.94, for 1,722 acres; total cost of crop, $117,195.65; average cost per acre for hauling to market, $.460; average cost of "other expenses" per acre, $.111; average cost of crop per acre, $6.922; average cost per bushel, $.573.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND HEADERS.

No.	Acres in Farm.	Value Per Acre.	Total Value.	Acres in Wheat.	Rent Per Acre.	Total Rent.	Plowing Per Acre.	Total Cost of Plowing.
12-1	700	$ 12	$ 8,400	400	$0 90	$ 360 00	$ 1 50	$ 600 00
4-4	580	10	5,800	435	1 50	652 50	1 75	761 25
1-5	150	5	750	110	1 00	110 00	1 25	137 50
2-8	200	10	2,000	140	1 00	140 00	1 25	175 00
5-8	275	7	1,925	200	1 00	200 00	1 50	300 00
6-8	250	10	2,500	250	1 00	250 00	1 75	437 50
7-8	100	16	1,600	60	1 50	90 00	1 75	105 00
15-8	200	12.50	2,500	100	1 00	100 00	1 25	125 00
16-8	160	10	1,600	100	75	75 00	1 50	150 00
17-8	650	10	6,500	300	1 00	300 00	2 00	600 00
20-8	320	10	3,200	200	1 50	300 00	1 75	350 00
23 8	110	10	1,100	110	1 00	110 00	1 50	165 00
	a2,265	b10.12	a22,925	a1,460	b1 072	a1,565 00	b1 649	a2,407 50
5-10	80	10	800	60	2 00	120 00	1 85	111 00
8-10	200	10	2,000	112	c1 20	134 40	1 60	179 20
11-10	180	7	1,260	60	50	30 00	2 00	120 00
12-10	100	10	1,000	60	50	30 00	1 75	105 00
13-10	250	10	2,500	100	1 00	100 00	1 25	125 00
15-10	97	12	1,164	50	1 50	75 00	1 75	87 50
17-10	150	15	2,250	150	c1 80	270 00	1 80	270 00
19-10	160	10	1,600	80	1 00	80 00	2 00	160 00
	a1,217	b10 33	a12,574	a672	b1 249	a839 40	b1 723	a1,157 70
1-14	400	8.75	3,500	260	1 50	390 00	1 25	325 00
2-14	480	6	2,880	200	75	150 00	1 00	200 00
3-14	200	10	2,000	122	1 00	122 00	1 50	183 00
4-14	500	10	5,000	363	1 25	453 75	1 75	635 25
6-14	175	14	2,450	120	1 00	120 00	1 40	168 00
7-14	340	8	2,720	160	96	153 60	1 25	200 00
8-14	115	5	575	100	c60	60 00	1 50	150 00
14-14	300	10	3,000	225	1 00	225 00	1 00	225 00
15-14	160	10	1,600	155	c1 20	186 00	1 75	271 25
	a2,670	b8.89	a23.725	a1,705	b1 091	a1,860 35	b1 383	a2,357 50

a Totals for counties. b Averages for counties. c Estimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND HEADERS.

No.	Am't of Seed Per Ac.	Total Amtount Seed-Bu.	Price of Seed Per Acre.	Price of Seed Per Bushel.	Total Cost of Seed.	Drilling—Per Acre.	Total Cost of Drilling.	Hail Ins. Per Acre.
12-1	1	400	$0 50	$0 50	$ 200 00	$0 50	$ 200 00	$0 25
4-4	1.50	625	75	50	326 25	40	174 00	25
1-5	1	110	50	50	56 00	30	33 00	.....
2-8	1	140	60	60	84 00	40	56 00	.....
5-8	1	200	60	60	120 00	35	70 00	.....
6-8	1	250	70	70	175 00	35	87 50	.....
7-8	1.12	68	79	702	47 40	50	30 00	.....
15-8	.75	75	40	533	40 00	40	40 00	.....
16-8	1	100	60	60	60 00	30	30 00	.....
17-8	1	300	60	60	180 00	40	120 00	.....
20-8	1	200	50	50	100 00	20	40 00	.....
23-8	1	110	53	53	58 30	475	52 25	.....
	b.988	a1,443	b592	b599	a864 70	b360	a525 72	.....
5-10	1	60	75	75	45 00	40	24 00	.....
8-10	1.25	140	1 00	80	112 00	30	33 60	.....
11-10	c1	60	50	50	30 00	40	24 00	.....
12-10	1	60	50	50	30 00	35	21 00	.....
13-10	1	100	40	40	40 00	25	25 00	.....
15-10	1	50	50	50	25 00	30	15 00	.....
17-10	1	150	50	50	75 00	40	60 00	.....
19-10	1	80	50	50	40 00	40	32 00	.....
	a1.04	a700	b591	b567	a397 00	b349	a234 60	.....
1-14	1	260	60	60	156 00	40	104 00	.....
2-14	.75	150	375	50	75 00	20	40 00	.....
3-14	1	122	80	80	97 60	50	61 00	22
4-14	1	363	50	50	181 50	45	163 35	.....
6-14	1	120	65	65	78 00	40	48 00	.....
7-17	1.50	240	95	633	152 00	50	80 00	.....
8-14	1.25	125	725	58	72 50	50	50 00	.....
14-14	1	225	55	55	123 75	25	56 25	.....
15-14	1	155	75	75	116 25	30	46 50	.....
	b1.032	a1,760	b617	b598	a1,052 60	b381	a649 10	b22

a Totals for counties. b Averages for counties. c Estimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND HEADERS.

No.	Total Cost of Hail Insurance.	Cutting and Stacking Per Acre.	Total Cost of Cutting and Stacking.	Threshing Per Acre.	Total Cost of Threshing.	Storing Per Acre.	Total Cost of Storing.
12-1	$ 100 00	$ .50	$ 200.00	$ .50	$ 200.00	$ .10	$ 40.00
4-4	108.75	1.00	435.00	.30	130.50	.....	.....
1-5	.....	1.00	110.00	.83	91.30	.....	.....
2-8	.....	1.00	140.00	.25	35.00	.04	5.60
5-8	.....	1.00	200.00	.48	96.00	.....	.....
6-8	.....	1.00	250.00	.48	120.00	.....	.....
7-8	.....	1.25	75.00	.19	11.40	.....	.....
15-8	.....	1.00	100.00	.15	15.00	.....	.....
16-8	.....	1.00	100.00	.15	15.00	.....	.....
17-8	.....	.40	120.00	.60	180.00	.05	15.00
20-8	.....	1.00	200.00	.50	100.00	.....	.....
23-8	.....	.783	86.13	.377	41.47	.08	8.80
	.....	b.871	a1,271.13	b.42	a613.87	b.053	a29.40
5-10	.....	1.00	60.00	.70	42.00	.10	6.00
8-10	.....	1.00	112.00	.70	78.40	.....	.....
11-10	.....	1.00	60.00	.50	30.00	.10	6.00
12-10	.....	1.00	60.00	.90	54.00	.....	.....
13-10	.....	1.00	100.00	.60	60.00	.075	7.50
15-10	.....	1.25	62.50	.50	25.00	.....	.....
17-10	.....	1.00	150.00	1.20	180.00	.....	.....
19-10	.....	1.00	80.00	1.00	80.00	.....	.....
	.....	b1.019	a684.50	b.818	a549.40	b.089	a19.50
1-14	.....	.75	195.00	.36	93.60	.08	20 80
2-14	.....	.50	100.00	.42	84.00	.....	.....
3-14	26.84	1.00	122.00	.64	78.08	.....	.....
4-14	.....	1.00	363.00	.60	217.80	.25	90 75
6-14	.....	.90	108.00	.64	76.80	.....	.....
7-14	.....	.90	144.00	.56	89.60	.....	.....
8-14	.....	1.00	100.00	.32	32.00	.....	.....
14-14	.....	1.00	225.00	.26	58.50	.02	4.50
15-14	.....	1.00	155.00	.40	62.00	.....	.....
	a26.84	b.887	a1,512.00	b.465	a792.38	b.137	a116.05

aTotals for counties. bAverages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND HEADERS.

No.	Average Yield Per Acre.	Total Yield--Bushels.	Miles from Market.	Bushel-Miles—Product.	Cost of Marketing Per Acre.	Total Cost of Marketing.	Other Exp. Per Acre.
12-1	5	2,000	13	26,000	$ .25	$ 100.00	$ .....
4-4	4.75	2,066	.....	.....	.20	87.00	.....
1-5	7.86	865	11	9,515	.40	44.00	.....
2-8	4	560	5	2,800	.16	22.40	.....
5-8	6	1,200	3	3,600	.15	30.00	.....
6-8	6	1,500	12	18,000	.30	75.00	.....
7-8	3	180	4	720	.09	5.40	.....
15-8	3	300	2	600	.06	6.00	.....
16-8	2.13	213	2	426	.04	4.00	.....
17-8	7	2,100	1.5	3,150	.10	30.00	.....
20-8	8	1,600	8	12,800	.25	50.00	.....
23-8	4.5	495	6	2,970	.363	39.93	.....
	b5.58	a8,148	b5.53	a45,066	.18	a262.73	.....
5-10	14.25	855	30	25,650	1.70	102.00	.....
8-10	7	784	30	23,520	.70	78.40	.....
11-10	8	480	26	12,480	.80	48.00	*.20
12-10	9	540	24	12,960	.90	54.00	.....
13-10	7.5	750	35	26,250	.75	75.00	.....
15-10	6.5	325	26	8,450	.65	32.50	.....
17-10	12	1,800	25	45,000	1.20	180.00	.....
19-10	10	800	23	18,400	1.00	80.00	.....
	b9.57	a6,334	b27.27	a172,710	b.967	a649.90	b.20
1-14	4.5	1,170	8	9,360	.20	52.00	.....
2-14	6	1,200	12	14,400	.24	48.00	.....
3-14	8	676	3	2,928	.16	19.52	.....
4-14	5.5	1,997	18	35,946	.25	90.75	.....
6-14	10	1,200	3	3,600	.20	24.00	†1.00
7-14	7	1,120	21	23,520	.70	112.00	.....
8-14	4	400	7	2,800	.20	20.00	.....
14-14	3.4	765	3	2,295	.10	22.50	.....
15-14	5	775	10	7,750	.10	15.50	.....
	b5.63	a9,603	b10.68	a102,599	b.237	a404.27	b1.00

aTotals for counties. aAverages for counties. *Feeding teams and depreciation of machinery. †Wintering teams.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND HEADERS.

No.	Total Other Expenses.	Total Cost Per Acre.	Total Cost of Crop.	Cost Per Bushel.
12-1	$.....	$ 5 00	$ 2,000 00	$ 1 00
4-4	.....	6 15	2,675 25	1 295
1-5	.....	5 28	580 80	670
2-8	.....	4 70	658 00	1 125
5-8	.....	5 08	1,016 00	847
6-8	.....	5 58	1,395 00	93
7-8	.....	6 07	364 20	2 023
15-8	.....	4 26	426 00	1 42
16-8	.....	4 34	434 00	2 038
17-8	.....	5 15	1,545 00	75
20-8	.....	5 70	1,140 00	712
23-8	.....	5 108	561 88	1 135
	.....	b5 164	a7,540 08	b925
5-10	.....	8 50	510 00	595
8-10	.....	6 50	728 00	929
11-10	12 00	6 00	360 00	75
12-10	.....	5 90	354 00	654
13-10	.....	5 325	532 50	71
15-10	.....	6 45	322 50	992
17-10	.....	7 90	1,185 00	658
19-10	.....	6 90	552 00	69
	a12 00	b6 762	a4,544 00	b717
1-14	.....	5 14	1,336 40	1 142
2-14	.....	3 485	697 00	581
3-14	.....	5 82	710 04	727
4-14	....	5 80	2,105 40	1 055
6-14	120 00	6 19	742 80	619
7-14	.....	5 82	931 20	831
8-14	.....	4 845	484 50	1 211
14-14	.....	4 18	940 50	1 229
15-14	.....	5 50	852 50	1 10
	a120 00	b5 161	a8,800 34	b916

aTotals for counties. bAverages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND HEADERS.

No.	Acres in Farm.	Value Per Acre.	Total Value.	Acres in Wheat.	Rent Per Acre.	Total Rent.	Plowing Per Acre.	Total Cost of Plowing.
1-15	....	$.....	$.....	c100	$ .75	$ 75 00	$ 1.00	$ 100.00
2-15	160	c10.00	1,600	90	.20	18.00	1.00	90.00
4-15	360	20.00	7,200	250	c2.40	600.00	1.50	375.00
5-15	150	12.00	1,800	115	1.00	115.00	2.00	230.00
6-15	200	10.00	2,000	135	c1.20	162.00	1.50	202.50
7-15	500	12.00	6,000	200	1.00	200 00	1.50	300.00
8-15	355	10.00	3,550	255	2.00	510.00	1.50	382.50
10-15	230	10 00	2,300	160	c1.20	192.00	2.00	320.00
14-15	2,000	20.00	40,090	1,800	1.00	1,800.00	1.40	2,520.00
	a3955	b16.80	a64,450	a3,105	b1.183	a3,672.00	b1.456	a4,520.00
5-18	400	10 00	4,000	228	1.00	228.00	1.75	399.00
8-18	100	5.00	500	55	.75	41.25	1.20	66.00
	a500	b9.00	a4,500	a283	b 951	a269.25	b1.643	a465.00
6-19	200	8.00	1,600	175	.50	87.50	1.25	218.75
21-27	425	16.00	6,800	320	1.00	320.00	1.50	480.00
3-30	500	15.00	7,500	400	1.00	400.00	1.25	500.00
19-30	365	20.00	7,300	312	1.75	546 00	1 50	468.00
25-30	800	15 00	12,000	650	1.25	812.50	1.50	975.00
30-30	700	12.00	8,400	400	1.50	600 00	1.75	700.00
	a2365	b14.88	a35,200	a1,762	b1 339	a2,358.50	b1.50	a2,643.00
16-31	160	10.00	1,600	70	.50	35.00	1.75	122.50
1-33	295	c10.00	2,950	100	1.00	100.00	1.70	170.00

Total number acres for State, 15,482; total value, $191,274; total acres in wheat, 10,597; total rent, $12,229.50; total cost of plowing, $16,040.70.

Average for State:—Value per acre, $12.35; rent per acre, $1.154; plowing per acre; $1.514.

aTotals for counties. bAverages for counties. cEstimated.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND HEADERS.

No.	Amount Seed Per Acre.	Total Amount Seed.	Value Seed Per Acre.	Value Seed Per Bushel.	Total Value Seed.	Drilling Per Acre.	Total Cost of Drilling.	Hail Insurance Per Acre.
1-15	1.	100	$ .60	$ .60	$ 60.00	$ .30	$ 30.00	$ .15
2-15	1.	90	.50	.50	45.00	.40	36.00	.....
4-15	1.	250	.65	.65	162.50	.40	100.00	.....
5-15	.75	86	.50	.667	57.50	.30	34.50	.....
6-15	1.	135	.60	.60	81.00	.35	47.25	.....
7-15	1.	200	.60	.60	120.00	.50	100.00	.....
8-15	.875	223	.56	.64	142.80	1.00	255.00	.....
10-15	1.	160	.60	.60	96.00	.20	32.00	.....
14-15	1.	1,800	.60	.60	1,080.00	.30	540.00	.....
	b.980	a3,044	b.594	b.606	a1,844.80	b.378	a1,174 75	b.15
5-18	1.	228	.40	.40	91.20	.30	68.40	.....
8-18	1.25	69	.68	.544	37.40	.20	11.00	.27
	b.1.049	a297	b.454	b.433	a128.60	b.281	a79.40	b.27
6-19	1.	175	.35	.35	61.25	.40	70.00	.....
21-27	1.	320	.60	.60	192.00	.45	144.00	.....
3-30	1.	400	.60	.60	240.00	.35	140.00	.....
19-30	1.166	364	.70	.60	218.40	.57	177.84	.....
25-30	1.	650	.55	.55	357.50	.25	162.50	.....
30-30	1.	400	.80	.80	320.00	.50	200.00	.....
	b1.030	a1,814	b.645	b.626	a1,135.90	b.386	a680.34	.....
16-31	1.	70	.60	.60	42.00	.50	35.00	.27
1-33	1.	100	.50	.50	50.00	.50	50.00	.....

aTotals for counties. bAverages for counties.

Total amount seed for State, 10,885 bushels; value seed, $6,350.10; cost of drilling, $4,049.94.

Averages for State:—Amount seed per acre, 1.027 bushels; value seed per acre, $.599; value seed per bushel, $.583; cost of drilling per acre, $.382; hail insurance per acre, $.241, with a total of 1,182 acres insured.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRIDLS AND HEADERS.

No.	Total Cost of Hail Ins.	Cutting & Stacking Per Acre.	Total Cost of Cutting and Stacking.	Threshing Per Acre.	Total Cost of Threshing.	Storing Per Acre.	Total Cost of Storing
1-15	$ 15.00	$ 1.00	$ 100.00	$ 40	$ 40.00	.....	.....
2-15	.....	75	67.50	30	27.00	.....	.....
4-15	.....	80	200.00	50	125.00	$ .05	$ 12.50
5-15	.....	1.00	115.00	75	86.25	.....	.....
6-15	.....	75	101.25	85	114.75	.....	.....
7-15	.....	75	150.00	60	120.00	.....	.....
8-15	.....	1.00	255.00	60	153.00	.....	.....
10-15	.....	60	96.00	40	64.00	.....	.....
14-15	.....	75	1,350.00	50	900.00	25	450.00
	a15.00	b784	a2,434.75	b525	a1,630.00	b226	a462.50
5-18	.....	60	136.80	1.00	228.00	.....	.....
8-18	14.85	85	46.75	80	44.00	.....	.....
	a14.85	b649	a183.55	b961	a272.00	.....	.....
6-19	.....	1.10	192.50	90	157.50	.....	.....
21-27	.....	80	256.00	42	134.40	05	16.00
							.....
3-30	.....	75	300.00	1.00	400.00	.....	
19-30	.....	1.12	349.44	48	149.76	.....	.....
25-30	.....	1.00	650.00	65	422.50	.....	.....
30-30	.....	1.00	400.00	90	360.00	.....	.....
	.....	b964	a1,699.44	b756	1,332.26	.....	.....
16-31	18.90	60	42.00	18	12.60	.....	.....
1-33	.....	1.00	100.00	65	65.00	.....	.....

aTotal for counties. bAverages for counties.

Totals for State—Cost of hail insurance, $284.34; cost of cutting and stacking, $9,120 87; threshing, $5,981.21; storing, $683.45.

Averages for State—Cost of cutting and stacking, $.861; threshing, per acre, $.564; storing, per acre, $.156, for a total of 4,388 acres.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND HEADERS.

No.	Average Yield Per Acre.	Total Yield—Bushels.	Miles From Market.	Bushel-Miles—Product.	Cost to Market Per Acre.	Total Cost to Market.	Other Expnses Per Acre.
1-15	6	600	10	6,000	$.36	36.00	.....
2-15	2.2	198	5	990	30	27.00	.....
4-15	8	2,000	4.5	9,000	16	40.00	*44
5-15	10	1,150	6	6,900	50	57.50	.....
6-15	7	945	3	2,835	15	20.25	.....
7-15	8	1,600	6	9,600	25	50.00	.....
8-15	8.67	2,211	6	13,266	26	66.30	.....
10-15	6	960	12	11,520	25	40.00	.....
14-15	4.25	7,650	2	15,300	10	180.00	.....
	b5.58	a17,314	b4.36	a75,411	b167	a517.05	b44
5-18	6	1,368	18	24,624	42	95.76	.....
8-18	8	440	30	13,200	80	44.00	.....
	b6.39	1,808	b20.92	a37,824	b494	139.76	.....
6-19	9	1,575	45	70,875	90	157.50	.....
21-27	7	2,240	7	15,680	25	80.00	.....
3-30	10	4,000	4	16,000	25	100.00	.....
19-30	8	2,496	2	4,992	15	46.80	.....
25-30	6	3,900	5	19,500	18	117.00	.....
30-30	9	3,600	3	10,800	15	60.00	.....
	b7.94	a13,996	b3.66	a51,292	b184	a323.80	.....
16-31	2.5	175	1	175	01	70	.....
1-33	6	600	2	1,200	10	10.00	.....

aTotal for counties. bAverages for counties. *Incidentals.

Totals for State—Yield, 66,724 bushels; bushel-miles (product of bushels raised multiplied by miles hauled to market) 608,347; cost of hauling to market, $2,776.71.

Averages for State—Yield, per acre, 6.30 bushels; distance from market, 9.41 miles; cost of hauling to market, per acre, $.262; other expenses, per acre, $.563.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR DRILLS AND HEADERS.

No.	Total Other Expenses.	Total Cost Per Acre.	Total Cost of Crop.	Cost Per Bushel.
1-15	$.....	$ 4 56	$ 456 00	$ 76
2-15	.....	3 45	310 50	1 568
4-15	110 00	6 90	1,725 00	862
5-15	.....	6 05	695 75	605
6-15	.....	5 40	729 00	771
7-15	.....	5 20	1,040 00	65
8-15	.....	6 92	1,764 60	798
10-15	.....	5 25	840 00	875
14 15	.....	4 90	8,820 00	1 153
	a110 00	b5 276	a16,380 85	b946
5-18	.....	5 47	1,247 16	912
8-18	.....	5 55	305 25	687
	.....	b5 486	a1,552 41	b859
6-19	.....	5 40	945 00	60
21-27	.....	5 07	1,622 40	724
3-30	.....	5 20	2,080 00	52
19-30	.....	6 27	1,956 24	784
25-30	.....	5 38	3,497 00	897
30-30	.....	6 60	2,640 00	733
	.....	b5 734	a10,173 24	b727
16-31	....	4 41	308 70	1 764
1-33	.....	5 45	545 00	908

aTotals for counties. bAverages for counties.
Totals for State—Other expenses, $242.00; total cost of producing crop, $57,668.07.
Averages for State—Total cost per acre of producing crop, $5.442; cost, per bushel, $.864.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND HEADERS.

No.	Acres in Farm.	Value per Acre.	Total Value.	Acres in Wheat.	Rent per Acre.	Total Rent.	Plowing per Acre.	Total Cost of Plowing.
11-5	85	$ 5.00	$ 425.00	44	$1.00	$ 44.00	$1.50	$ 66.00
12-5	429	10.00	4,290.00	280	1.50	420.00	*.475	133.00
13-5	290	10.00	2,900.00	230	2.00	460.00	1.25	287.50
15-5	300	10.00	3,000.00	140	1.50	210.00	1.50	210.00
21-5	97	10.00	970.00	62	.90	55.80	1.25	77.50
23-5	115	3 50	402.00	80	.50	40.00	1.50	120.00
24-5	80	10,00	800.00	57	.50	27.50	2.00	114.00
29-5	400	6.00	2,400.00	200	.90	180.00	1.25	250.00
	a1,796	b8.46	a15,187.00	a1,093	b1.315	a1437.30	b1.151	a1,258.00
10-8	125	c10.00	1,250.00	60	1.00	60.00	1.75	105.00
17-8	650	10.00	6,500.00	300	1.00	300.00	2.00	600.00
	a775	b10.00	a7,750.00	a360	b1.00	a360.00	b1.958	a705.00
3-9	1,120	10 00	11,200.00	400	.90	360.00	1.50	600.00
2-10	110	4.50	495.00	70	1.00	70.00	1.50	105.00
13-10	250	10.00	2,500.00	100	1.00	100.00	1.25	125.00
	a360	b8.32	a2,995.00	a170	b1.00	a170.00	b1.353	a230.00
15-14	160	10.00	1,600.00	155	c1.20	186.00	1.75	271.25
1-15	.....	.....	.....	c200	.75	150.00	1.00	200.00
8-15	355	10 00	3,550.00	255	2.00	510.00	1.50	382.50
	a355	b10.00	a3,550.00	a455	b1.451	a660.00	b1.28	a582.50
1-16	150	5.00	750.00	100	1.00	100.00	3.00	300.00
17-27	220	12.00	2,640.00	135	2.00	270.00	1.75	236.25
18-27	225	6.00	1,350.00	160	.60	96.00	1.00	160.00
	a445	b8.97	a3,990.00	a295	b1.241	a366.00	b1.343	a396.25
3-30	500	15.00	7,500.00	400	1.00	400.00	1.25	500.00
30-30	700	12.00	8,400.00	400	1.50	600.00	1.75	700.00
	a1,200	b13.25	a15,900.00	a800	b1.25	a1000.00	b1.50	a1,200.00

Total number of acres in state, 6,361; total value, $62,922; total acres in wheat, 3,828; total rent, $4,639.30; total cost of plowing, $5,543.

Averages for state—Value per acre, $9.89; rent per acre, $1.212; plowing per acre, $1.448.

a Total for counties. b Averages for counties. c Estimated. *See explanation in "What the Farmers Say."

COST OF PRODUCING WHEAT FOR 1893.—*Continued.*

FOR BROADCAST SEEDERS AND HEADERS.

No.	Amount Seed Per Acre.	Total Amount Seed.	Value Seed Per Acre.	Value Seed Per Bushel.	Total Value Seed.	Cost Seeding Per Acre.	Total Cost Seeding	Cost Hail Insur'ce.
11-5	1.25	55	$ .70	$ .56	$ 30 80	$ .50	$22 00	$.....
12-5	1	280	.46	.46	128 80	.05	14 00	.20
13-5	1	230	.60	.60	138 00	.75	172 50	.....
15-5	.75	105	.45	.60	63 00	.45	63 00	.....
21-5	1	62	.50	.50	31 00	.40	24 80	.....
23-5	1	80	.65	.65	52 00	.75	60 00	.25
24-5	1	57	.55	.55	31 35	.15	8 55	.19
29-5	1.25	250	.65	.52	130 00	.50	100 00	.....
	b1.024	a1,119	b.553	b.541	a604 95	b.425	a464 85	b.208
10-8	1.50	90	.90	.60	54 00	.25	15 00	.....
17-8	1.50	450	.90	.60	270 00	.35	105 00	.....
	b1.50	a540	b.90	b.60	a324 00	b.333	a120 00	.....
3-9	1.25	500	.65	.52	260 00	.25	100 00	.25
2-10	1.25	87	.62	.496	43 40	.75	52 50	.....
13-10	1.25	125	.50	.40	50 00	.25	25 00	.....
	b1.25	a212	b.549	b.440	a93 40	b.456	a77 50	.....
15-14	1.25	194	.94	.752	145 70	.30	46 50	.....
1-15	1.5	300	.90	.60	180 00	.30	60 00	.15
8-15	1	255	.65	.65	165 75	.80	204 00	.....
	b1.22	a555	b.760	b.623	a345 75	b.580	a264 00	b.15
1-16	1	100	.50	.50	50 00	.30	30 00	.27
17-27	1.375	186	.75	.545	101 25	.45	60 75	.....
18-27	1.5	240	.77	.513	123 20	.30	48 00	.....
	b1.444	a426	b.761	b.527	a224 45	b.369	a108 75	.....
30-30	1.25	500	.75	.60	300 00	.25	100 00	.....
30-30	1.25	500	1.00	.80	400 00	.40	160 00	.....
	b1.25	a1,000	b.875	b.70	a700 00	b.325	a260 00	.....

Total for State—Total amount seed, 4,646 bushels; total value seed, $2,748.25; total cost seeding, $1,471.60.

Averages for state—Amount seed per acre, 1.214 bushels; value seed per acre, $.718; value seed per bushel, $.592; cost seeding per acre, $.384; cost hail insurance per acre, $.218, for a total of 1,117 acres insured.

a Totals for counties. b Averages for counties.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND HEADERS.

No.	Total Cost Hail Insurance.	Cutting and Stacking Per Acre.	Total Cost Cutting and Stacking.	Threshing Per Acre.	Total Cost of Threshing.	Storing Per Acre.	Total Cost of Storing.
11-5	$.....	$ 1 25	$ 55 00	$ 1 00	$ 44 00	$	$ .....
12-5	56 00	80	224 00	60	168 00	.....	.....
13-5	.....	1 25	287 50	60	138 00	.....	.....
15-5	.....	1 00	140 00	30	42 00	.....	.....
21-5	.....	1 00	62 00	80	49 60	.....	.....
23-5	20 00	1 00	80 00	90	72 00	.....	.....
24-5	10 83	1 00	57 00	70	39 90	.....	.....
29-5	.....	1 00	200 00	65	130 00	.....	.....
	a86 83	b1 011	a1,105 50	b625	a683 50	.....	.....
10 8	.....	1 00	60 00	36	21 60	.....	.....
17-8	.....	40	120 00	60	180 00	05	15 00
	.....	a50	b180 00	b560	a201 60	b05	a15 00
3-9	100 00	90	360 00	85	340 00	.....	.....
2-10	.....	1 10	77 00	1 00	70 00	.....	.....
13-10	.....	1 00	100 00	60	60 00	075	7 50
	.....	b1 041	a177 00	b765	a130 00	b075	a7 50
15-14	.....	1 00	155 00	40	62 00	.....	.....
1-15	30 00	1 00	200 00	40	80 00	.....	.....
8-15	.....	1 00	255 00	60	153 00	.....	.....
	a30 00	b1 00	a455 00	b512	a233 00	.....	.....
1-16	27 00	1 00	100 00	50	50 00	.....	.....
17-27	.....	97	130 95	45	60 75	.....	.....
18-27	.....	60	96 00	26	39 60	.....	.....
	.....	b769	a226 95	b340	a100 35	.....	.....
3-30	.....	75	300 00	1 00	400 00	.....	.....
30-30	.....	1 00	400 00	90	360 00	.....	.....
	.....	b875	a700 00	b950	a760 00	.....	.....

aTotals for counties. bAverages for counties.

Total for State—Total cost hail insurance, $243.83; total cost cutting and stacking, $3,459.45; total cost threshing, $2,560.45; total cost of storing, $22.50.

Averages for State—Cutting and stacking per acre, $.904; threshing per acre, $.669; storing per acre, $.056. 400 acres stored. and 2,850 bushels.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND HEADERS.

No.	Average Yield Per Acre.	Total Yield — Bushels.	Miles to Market.	Bushel-Miles, Product.	Cost to Market Per Acre.	Total Cost of Marketing.
11-5	10	440	4	1,760	$0 30	$ 13 20
12-5	7	1,960	5	9,800	03	8 40
13-5	5.5	1,265	6.5	8,223	16	36 80
15-5	3	420	1	420	03	4 20
21-5	8	496	8	3,968	40	24 80
23-5	7	560	8	4,480	42	33 60
24-5	7.5	428	8	3,424	40	22 80
29-5	8.12	1,625	5	8,125	244	48 75
	a6.58	a7,194	b5.59	a40,200	b176	a192 55
10-8	6	360	3	1,080	14	8 40
17-8	7	2,100	1.5	3,150	10	30 00
	b6.83	a2,460	b1.72	a4,230	b107	a38 40
3-9	16	6,400	2	12,800	20	80 00
2-10	10	700	22	15,400	1 00	70 00
13-10	7.5	750	35	26,250	75	75 00
	b853	a1,450	b28.72	a41,650	b853	a145 00
15-14	5	775	10	7,750	10	15 50
1-15	6	1,200	10	12,000	36	72 00
8-15	8.67	2,211	6	13,266	26	66 30
	b7.50	a3,411	b7.41	a25,266	b304	a138 30
1-16	5	500	28	14,000	50	50 00
17-27	4.5	607	12	7,284	35	47 25
18-27	4.6	736	13	9,468	23	36 80
	b4.55	a1,343	b12.47	a16,752	285	a84 05
3-30	10	4,000	4	16,000	25	100 00
30-30	9	3,600	3	10,800	15	60 00
	b9.50	a7,600	b3.53	a26,800	b200	a160 00

aTotals for counties. bAverages for counties.

Totals for State—Total yield, bushels, 31,133; bushel-miles-product, 189,448; total cost of marketing, $903.80.

Averages for State—Average yield per acre, 8.13; miles to market, 6.08; cost to market per acre, .236.

COST OF PRODUCING WHEAT FOR 1893—*Continued.*

FOR BROADCAST SEEDERS AND HEADERS.

No.	Total Cost Per Acre.	Total Cost of Crop.	Cost Per Bushel.	No.	Total Cost Per Acre.	Total Cost of Crop.	Cost Per Bushel.
11-5	$ 6 25	$ 275 00	$ .625	15-14	$ 5 69	$ 881 95	$1.138
12-5	4 115	1,152 20	.588				
13-5	6 61	1,520 30	1.202	1-15	4 86	972 00	.81
15-5	5 23	732 20	1.743	8-15	6 81	1,736 55	.785
21-5	5 25	325 50	.656		b5 953	a2,708 55	b.794
23-5	5 97	477 60	.853				
24-5	5 49	312 93	.732				
29-5	5 194	1,038 75	.639	1-16	6 57	657 00	1.314
	b5 388	a5,834 48	b.811	17-27	6 72	907 20	1.493
				18-27	3 76	601 60	.817
10-8	5 40	324 00	.90		b5 115	a1,508 80	b1.123
17-8	5 40	1,620 00	.771				
	b5 40	a1,944 00	b.790	3-30	5 25	2,100 00	.525
				30-30	6 70	2,680 00	.744
3-9	5 50	2,200 00	.344		b5.975	a4,780 00	b.629
2-10	6 97	487 90	.697				
13-10	5 425	542 50	.723				
	b6 061	a1,030 40	.b711				

Averages for state—Cost per acre, $5.628; cost per bushel, $.692.
Total cost of crop, in state, $21,545.18.
a Total for counties. b Averages for counties.

COST OF PRODUCING WHEAT FOR 1892.

FOR DRILLS AND HEADERS.

No.	Acres in Farm.	Value Per Acre.	Total Value.	Acres in Wheat.	Rent Per Acre.	Total Rent.	Plowing Per Acre.	Total Cost of Plowing.
1-5	90	$ 5	$ 450	71	$ 1 00	$ 71 00	$ 1 25	$ 88 75
17-8	650	10	6,500	300	1 00	300 00	2 00	600 00
17-10	110	11	1,210	40	c1 32	52 80	*25	10 00
1-14	....	.....	.....	260	1 50	390 00	1 25	325 00
4-14	650	9	5,850	400	1 50	600 00	1 25	500 00
14-14	175	10	1,750	175	1 00	175 00	1 00	175 00
2-15	180	6	1,080	120	1 25	150 00	1 50	180 00
8-18	75	5	375	94	75	70 50	1 30	122 20
3-30	500	18	9,000	400	1 00	400 00	1 00	400 00
	a2430	b10 79	a26,215	a1860	b1 188	a2209 30	b1 291	a2,400 95

1891.

1-14	c600	c8	4,800	500	1.25	625.00	1.25	625.00
2-15	160	7	1,120	110	1.00	110.00	1.25	137.50
21-27	350	15	5,250	250	1.50	375.00	1.65	412.50
3-30	400	15	9,000	300	1.00	300.00	1.25	375.00
	a1510	b11.37	a17,170	a1160	b1.216	a1410.00	b1.336	a1550.00

aTotals for State. bAverages for State. cEstimated.
*Not plowed, but stubbled in.

COST OF PRODUCING WHEAT FOR 1892—*Continued.*

FOR DRILLS AND HEADERS.

No.	Amount Seed Pr Acre.	Total Amount Seed.	Value Seed Per Acre.	Value Seed Per Bushel.	Total Value Seed.	Drilling Per Acre.	Total Cost of Drilling.	Hail In. Per Acre.
1-5	1	71	$ 0.70	$ 0.70	$ 49.70	$ 0.30	$ 21.30	.....
17-8	1	300	65	65	195.00	40	120.00	.....
17-10	1	40	60	60	24.00	54	21.60	.....
1-14	1	260	70	70	182.00	40	104.00	.....
4-14	1	400	55	55	220.00	40	160.00	.....
14-14	1	175	60	60	105.00	25	43.75	.....
2-15	1	120	80	80	96.00	60	72.00	.....
8-18	1¼	118	65	52	61.10	20	18.80	$0.27
3-30	1	400	70	70	280.00	35	140.00	.....
	b1.013	a1,884	b644	b644	a1212.80	b377	a701.45	b.270

1891.

1-14	1	500	1.00	1.00	500.00	40	200.00	.....
2-15	1	110	80	80	88.00	70	77.00	.25
21-27	⅝	156	60	96	150.00	45	112.50	.....
3-30	1	300	70	70	210.00	35	105.00	.....
	b919	a1,066	b817	b889	a948.00	b426	a494.50	b.250

aTotals for state. bAverages for State.

COST OF PRODUCING WHEAT FOR 1892—*Continued.*

FOR DRILLS AND HEADERS.

No.	Total Cost Hail Insurance.	Heading and Stck'ng Per Acre.	Total Heading and Stacking.	Threshing Per Acre.	Total Cost of Threshing.	Storing Per Acre.	Total Cost of Storing.
1-5	.....	$ 1 00	$ 71 00	$0 95	$ 67 45	.....	.....
17-8	.....	75	225 00	90	270 00	$ 005	$ 15 00
17-10	.....	95	38 00	92	36 80	.....	.....
1-14	.....	80	208 00	92	239 20	c 23	59 80
14-14	.....	1 00	400 00	90	360 00	14	56 00
14-14	.....	1 00	175 00	27	47 25	.....	.....
2-15	.....	1 10	132 00	60	72 00	.....	.....
8-18	$ 25 38	85	79 90	75	70 50	.....	.....
3-30	.....	1 00	400 20	2 25	900 00	.....	.....
	a25 38	b 930	a1,728 90	b1 109	a2,063 20	b 136	a130 80

1891.

1-14	.....	1 25	625 00	1 12	560 00	70	350 00
2-15	27 50	1 25	137 50	2 00	220 00	25	27 50
21-27	.....	1 45	362 50	1 40	350 00	20	50 00
3-30	.....	1 00	300 00	2 00	600 00	.....	.....
	a27 50	b1 228	a1,425 00	b1 491	a1,730 00	b497	a427 50

a Totals for State. b Averages for State. c Estimated.

Totals for State—Cost of hail insurance, $284.34; cost of cutting and stacking, $9,120 87; threshing, $5,981.21; storing, $683.45.

Averages for State—Cost of cutting and stacking, $.861; threshing, per acre, $.564; storing, per acre, $.156, for a total of 4,388 acres.

COST OF PRODUCING WHEAT FOR 1892—*Continued.*

FOR DRILLS AND HEADERS.

No.	Average Yield Per Acre.	Total Yield—Bushels.	Miles From Market.	Bushel-Miles—Product.	Cost of Marketing Per Acre.	Total Cost of Marketing.	Other Expenses Per Acre.
1-5	9.17	651	11	7,161	$0.46	$ 32 66	.....
17-8	9	2,700	1.5	4,050	c15	45 00	.....
17-10	9	360	25	9,000	90	36 00	.....
1-14	11.5	2,990	8	23,920	46	119 60	.....
4-14	14	5,600	18	100,800	70	280 00	.....
14-14	3	525	3	1,575	03	5 25	$ *2 00
2-15	8	960	5	4,800	40	48 00	.....
8-18	9	846	30	25,380	99	93 06	.....
3-30	18	7,200	4	28,800	50	200 00	.....
	b11.74	a21,832	b9.41	a205,486	b462	a859 57	b2 00

1891.

1-14	14	7,000	8	56,000	56	280 00	.....
2-15	20	2,200	.....	.....	.....	.....	.....
21-27	20	5,000	6	30,000	70	175 00	.....
3-30	25	7,500	4	30,000	c50	150 00	.....
	b18.71	a21,700	b5.95	a116,000	b576	a605 00	.....

aTotal for state. bAverages for state. *Manuring land.

COST OF PRODUCING WHEAT FOR 1892—*Continued.*

FOR DRILLS AND HEADERS.

No.	Total Other Expenses.	Total Cost Per Acre.	Total Cost of Crop.	Cost Per Bushel.
1-5	.....	$ 5 66	$ 481 86	$ .617
17-8	.....	5 90	1,770 00	.656
17-10	.....	5 48	219 20	.609
1-14	.....	6 26	1,627 60	.544
4-14	.....	6 44	2,576 00	.460
14-14	$ 350 00	6 15	1,076 25	2.050
2-15	.....	6 25	750 00	.781
8-18	.....	5 76	541 44	.640
3-30	.....	6 80	2,720 00	.378
	a350 00	b6 281	a11,682 35	b.5351

1891..

1-14	.....	7 53	3,765 00	.538
2-15	.....	7 50	825 00	.375
21-27	.....	7 95	1,987 50	.397
3-30	.....	6 80	2,040 00	.272
	.....	b7 429	a8,617 50	b.397

aTotals for State. bAverages for State. cEstimated.

COST OF PRODUCING WHEAT FOR 1892.

FOR DRILLS AND BINDERS.

No.	Acres in Farm.	Value Per Acre.	Total Value	Acres in Wheat	Rent Per Acre.	Total Rent.	Plowing Per Acre.	Total Cost of Plowing.
2-1	....	..	.....	240	....	.....	....	.....
12-1	700	$ 12	$8,400	400	$0.50	$ 200 00	$1.50	$ 600 00
1-2	225	7	1,575	200	c.84	168 00	2.00	400 00
2-4	300	4	1,200	200	1.25	250 00	2.00	400 00
13-4	330	7	2,310	200	.42	84 00	* .80	160 00
40-6	620	25	15,500	500	2.00	1,000 00	1.00	500 00
13-7	90	6	540	70	1.00	70 00	1.50	105 00
25-8	160	4	640	80	.75	60 00	1.43	114 40
6-10	60	10	600	50	2.00	100 00	1.50	75 00
15-10	75	12	900	32	1.00	32 00	1.75	56 00
5-12	320	18.75	6,000	320	1.50	480 00	1.85	592 00
7-12	320	25	8,000	235	2.50	587 50	1.25	293 75
5-15	140	12	1,680	77	2.00	154 00	2.00	154 00
20-21	108	8	864	48	c.96	46 08	1.25	60 00
15-21	80	c8	640	50	c.96	48 00	1.80	60 00
4-22	325	10	3,250	165	2.00	330 00	2.00	330 00
5-22	340	10	3,400	150	1.00	150 00	1.60	240 00
16-22	130	7	910	90	1.00	90 00	1.75	157 50
5-24	185	16	2,960	105	2.00	210 00	1.75	183 75
17-24	320	15	4,800	200	2 00	400 00	2.00	400 00
34-24	250	10	2,500	168	2.25	378 00	1.75	294 00
43-24	300	20	6,000	110	2.00	220 00	1.75	192 50
2-26	600	15	9,000	390	2.00	780 00	2 00	780 00
21-27	400	15	6,000	300	1.50	450 00	1.65	495 00
3-28	135	25	3,375	68	2 50	170 00	1.50	102 00
24-28	250	18	4,500	175	3.00	525 00	1.50	262 50
8-29	125	10	1,250	85	c1.20	102 00	1.70	144 50
3-30	500	18	9,000	400	1.00	400 00	1.00	400 00
16-31	100	10	1,000	70	.50	35 00	† .50	35 00
17-31	350	5	1,750	300	1.00	300 00	1.70	510 00
34-32	100	c12	1,200	90	1.25	112 50	1.25	112 50
9-33	.....	.....	.....	c200	1.25	250 00	1.46	292 00
30-35	350	30	10,500	265	2.20	583 00	1.50	397 50
31-36	450	20	9,000	310	3.00	930 00	1.20	372 00
	a8,738	b14.79	a129,244	a6,343	b1 589	a9,695 08	b1.524	a9,300 90

aTotals for State. bAverages for State. cEstimated.
Acres for which rent is charged, 6,343. *Sixty acres "stubbled in" and not plowed.
†Disced and not plowed.

COST OF PRODUCING WHEAT FOR 1892—*Continued.*

FOR DRILLS AND BINDERS.

No.	Am't Seed pr Acre.	Total Amount Seed.	Value Seed Per Acre.	Value Seed Per Bushel.	Total Value of Seed.	Cost of Drilling Per Acre.	Total Cost of Drilling.	Hail Insurance Per Acre.
2–1	....	.....	.....	.....	.....	.....	.....	.....
12–1	1	400	$0.60	$0.60	$240.00	$0.50	$ 200.00	$ 0.25
1–2	1	200	.55	.55	110.00	.50	100.00	.....
2–4	1.25	250	.65	.52	130.00	.35	70.00	.....
13–4	1	200	.64	.64	128.00	.18	36.00	.....
40–6	c1.25	625	.75	.60	375.00	.50	250.00	.20
13–7	1.25	88	.75	.60	52.50	.35	24.50	.....
25–8	1	80	.85	.85	68.00	.40	32 00	.22
6–10	1	50	.50	.50	25.00	.40	20.00	.....
15–10	1	32	.75	.75	24.00	.30	9.60	.....
5–12	1.25	400	1.00	.80	320 00	.375	120.00	.25
7–12	1.25	294	.75	.60	176.25	.25	58.75	.....
5–15	1	77	.70	.70	53.90	.50	38.50	.....
20–21	1	48	.65	.65	31.20	.40	19.20	.25
15–21	1.25	62	.85	.68	42.50	.30	15.00	.50
4–22	1.25	206	.90	.72	148.50	.40	66 00	.....
5–22	1.25	188	.75	.60	112.50	.35	52 50	.....
16–22	1.25	112	1.00	.80	90.00	.30	27 00	.....
5–24	1.50	158	1.10	.733	115.50	.40	42.00	.25
17–24	1.50	300	1.05	.70	210 00	.35	70 00	.25
34–24	1.25	210	.70	.56	117.60	.25	42.00	.....
43–24	1	110	.55	.55	60.50	.50	55.00	.....
2–26	1.25	487	.65	.52	253.50	.25	97.50	.....
21–27	1	300	1.00	1.00	300.00	.45	135.00	.....
3–28	1.25	85	1.25	1.00	85.00	.70	47.60	.....
24–28	1.25	219	1.00	.80	175 00	.30	52.50	.27
8–29	1	85	1.00	1.00	85.00	.35	29.75	.....
3–30	1	400	.70	.70	280.00	.35	140.00	.....
16–31	1	70	.70	.70	49.00	.40	28.00	.23
17–31	1	300	.70	.70	210.00	.50	150.00	.....
34–32	1	90	c.70	.70	63.00	.30	27.00	.25
9–33	1	200	.59	.59	118.00	.46	92.00	.....
30–35	1.25	331	.90	.72	238.50	.50	132 50	.....
31–36	1.166	362	.70	.60	217.00	.40	124.00	.....
	b 1.150	a7,019	b.771	b.670	a4,704.95	b.394	a2,403.90	b.244

aTotals for state. bAverages for state. cEstimated.
Acres insured against hail, 2,038 acres.

COST OF PRODUCING WHEAT FOR 1892—*Continued.*

FOR DRILLS AND BINDERS.

No.	Total Cost of Hail Ins.	Cutting and Binding Per Acre.	Total Cost of Cutting and Binding.	Shocking —Per Acre.	Total Cost of Shocking.	Stacking —Per Acre.	Total Cost of Stacking.
2–1	$.....	$.....	$.....	$....	$.....	$.....	$.....
12–1	100 00	.75	300 00	.20	80 00	.....	.....
1–2	.....	1.20	240 00	.30	60 00	.....	.....
2–4	.....	.90	180 00	.20	40 00	.40	80 00
13–4	.....	1.18	236 00	.16	32 00	.55	110 00
40–6	100 00	1.75	875 00	.25	125 00	.....	.....
13–7	.....	.90	63 00	.20	14 00	.....	.....
25–8	17 60	.97	77 60	.18	14 40	.....	.....
6–10	.....	1.25	62 50	.20	10 00	.40	20 00
15–10	.....	.75	24 00	.10	3 20	.....	.....
5–12	80 00	.80	256 00	.18	57 60	.....	.....
7–12	.....	1.25	293 75	.25	58 75	.....	.....
5–15	.....	1.00	77 00	.25	19 25	.....	.....
20–21	12 00	.95	45 60	.35	16 80	.50	24 00
15–21	25 00	1.00	50 00	.15	7 50	.45	22 50
4–22	.....	1.00	165 00	.20	33 00	.....	.....
5–22	.....	1.10	165 00	.20	30 00	.....	.....
16–22	.....	1.00	90 00	.25	22 50	.....	.....
5–24	26 25	.70	73 50	.20	21 00	.55	57 75
17–24	50 00	.77	154 00	.15	30 00	.....	.....
34–24	.....	.90	151 20	.25	42 00	.....	.....
43–24	.....	.90	99 00	.20	22 00	.75	82 50
2–26	.....	.80	312 00	.20	78 00	.....	.....
21–27	.....	.97	291 00	.20	60 00	.....	.....
3–28	.....	1.35	91 80	.40	27 20	1.53	104 04
24–28	47 25	.80	140 00	.20	35 00	.50	87 50
8–29	.....	.80	68 00	.30	25 50	.....	.....
3–30	.....	1.00	400 00	.10	40 00	.....	.....
16–31	16 10	.75	52 50	.25	17 50	.50	35 00
17–31	.....	1.00	300 00	.....	.....	.60	180 00
34–32	22 50	.55	49 50	.20	18 00	.....	.....
9–33	.....	.89	178 00	.20	40 00	.....	.....
30–35	.....	1.00	265 00	.20	53 00	.50	132 50
31–36	.....	.90	279 00	.15	46 50	.....	.....
	a496 70	b1.000	a6,104 95	b.203	a1,179 70	b.570	a935 79

aTotals for State. bAverages for State.
Shocked, 5,803 acres. Stacked, 1,641 acres.

COST OF PRODUCING WHEAT FOR 1892—*Continued.*

FOR DRILLS AND BINDERS.

No.	Threshing Per Acre.	Total Cost of Threshing.	Storing Per Acre.	Total Cost of Storing.	Average Yield Per Acre.	Total Product, Bushels.	Miles to Market.
2-1	$.....	$.....	$.....	$.....	18.	4,320	.....
12-1	1.40	560 00	.26	104 00	13.	5,200	13
1-2	1.80	360 00	.....	.....	18.	3,600	3
2-4	1.35	270 00	.....	.....	17.	3,400	12
13-4	1.90	380 00	.....	.....	19.	3,800	3
40-6	1.80	900 00	.....	.....	19.	9,500	3.5
13-7	1.07	74 90	.....	.....	13.	910	11
25-8	2.475	198 00	.....	.....	24.75	1,980	5
6-10	1.50	75 00	.....	.....	20.	1,000	45
15-10	1.35	43 20	.....	.....	13.	416	26
5-12	.80	256 00	.....	.....	8.	2,560	7.5
7-12	2.20	517 00	.....	.....	22.	5,170	2.5
5-15	1.25	96 25	.....	.....	11.5	886	6
20-21	1.10	52 80	.....	.....	16.	768	5
15-21	1.50	75 00	.....	.....	15.5	775	2
4-22	2.05	338 25	.10	16 50	17.	2,805	8
5-22	2.40	360 00	.....	.....	20.	3,000	10
16-22	2.20	198 00	.50	45 00	20.	1,800	4
5-24	1.25	131 25	.....	.....	20.33	2,135	2
17-24	1.40	280 00	.....	.....	14.	2,800	2.5
34-24	1.85	310 80	.15	27 20	16.	2,688	10
43-24	.90	99 00	.15	16 50	12.	1,320	4
2-26	1.90	741 00	.....	.....	19.	7,410	1.5
21-27	1.60	480 00	.16	48 00	16.	4,800	6
3-28	1.92	130 56	.....	.....	21.	1,428	3
24-28	2.00	350 00	.10	17 50	25.	4,375	4
8-29	1.89	160 65	.....	.....	21.5	1,827	17
3-30	2.25	900 00	.....	.....	18.	7,200	4
16-31	1.40	98 00	.....	.....	20.	1,400	1
17-31	.96	288 00	.....	.....	12.	3,600	4
34-32	1.76	158 40	.....	.....	16.	1,440	5
9-33	1 00	200 00	.....	.....	10.	2,000	3.5
30-35	2.00	530 00	.....	.....	19.	5,035	.25
31-36	1.68	520 80	.....	.....	21.	6,510	1
	b1.660	a10,132 86	b.195	a274 70	b17.004	a107,858	5.26

aTotals for State. bAverages for State.

Acres threshed, 6,103; acres stored, 1,408; for which distance hauled to market is given, 103,538 bushels.

COST OF PRODUCING WHEAT FOR 1892—*Continued.*

FOR DRILLS AND BINDERS.

No.	Bushel-Miles —Product.	Cost to Market PrAcre.	Total Cost to Market.	Other Exp'n's PrAcre.	Total Other Exp'nses.	Total Cost Per Acre.	Total Cost of Crop.	Cost Per Bushel.
2-1	.....	....	.....	....	.....	$6.06	$ 1,454 40	$.337
12-1	67,600	$.78	$ 312 00	*$.40	$160.00	7.14	2,856 00	.549
1-2	10,800	.55	110 00	....	.....	7.74	1.548 00	.430
2-4	40,800	1.00	200 00	....	.....	8.10	1,620 00	.476
13-4	11,400	.37	74 00	....	.....	6.20	1.240 00	.326
40-6	33.250	.28	140 00	....	.....	8.53	4,265 00	.449
13-7	10,010	.65	45 50	....	.....	6.42	449 40	.494
25-8	9,900	.495	39 60	....	.....	7.77	621 60	.314
6-10	45,000	1.60	80 00	....	.....	9.35	467 50	.4675
15-10	10,806	1.30	41 60	....	.....	7.30	233 60	.562
5-12	19 200	.32	102 40	....	.....	7.075	2,264 00	.884
7-12	12,925	.44	103 40	....	.....	8.89	2,089 15	.404
5-15	5,316	.55	43 35	....	.....	8.25	635 25	.717
20-21	3,840	.60	28 80	....	.....	7.01	336 48	.438
15-21	1,550	.25	12 50	....	.....	7.76	388 00	.500
4-22	22,400	.65	107 25	....	.....	9.30	1,534 50	.547
5-22	30,000	1.20	180 00	....	.....	8.60	1,290 00	.430
16-22	7,200	.60	54 00	....	.....	8.60	774 00	.430
5-24	4,270	.29	30 45	....	.....	8.49	891 45	.418
17-24	7,000	.28	56 00	....	.....	8.25	1,650 00	.589
34-24	26,880	.95	159 60	....	.....	9.05	1,520 40	.566
43-24	5,280	.30	33 00	....	.....	8.00	880 00	.667
2-26	11,115	.27	105 30	....	.....	8.07	3,147 30	.425
21-27	28,800	.56	168 00	....	.....	8.09	2,427 00	.506
3-28	4,284	.74	50 32	....	.....	11.89	808 52	.566
24-28	17,500	.70	122 50	†.10	17.50	10.47	1,832 25	.419
8-29	31,059	1.40	119 00	....	.....	8.64	734 40	.402
3-30	28,800	.50	200 00	....	.....	6.90	3,760 00	.383
16-31	1,400	.10	7 00	....	.....	5.23	366 10	.2615
17-31	14,400	.30	90 00	....	.....	6.70	2,010 00	.558
34-32	7,200	.40	36 00	....	.....	6.66	599 40	.416
9-33	7,000	.35	70 00	....	.....	6 20	1,240 00	.620
30-35	1.259	.19	50 35	....	.....	8.99	2,382 35	.473
31-36	6,510	.42	130 20	....	.....	8.45	2,619 50	.402
	a544,794	b.508	a3,102 12	b.309	a177.50	b7.873	a49,935 55	b.463

aTotals for state. bAverages for state. *Interest on stock and wear on machinery.
†Rolling ground. Acres for which "other expenses" are given, 575.

COST OF PRODUCING WHEAT FOR 1892—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Acres in Farm.	Value Per Acre.	Total Value.	Acres in Wheat.	Rent Per Acre.	Total Rent.	Plowing Per Acre.	Total Cost of Plowing.
9–5	85	$20 00	$ 1.700	50	$1.00	$ 50 00	$1.00	$ 50 00
2–7	200	12 00	2,400	170	2.00	340 00	1.50	255 00
10–9	150	8 00	1,200	110	1.00	110 00	1.60	176 00
4–10	75	16 00	1,200	40	1.00	40 00	1.50	60 00
17–11	350	10 00	3,500	135	1.00	135 00	1.75	236 25
57–12	200	14 00	2,800	120	1.50	180 00	2.00	240 00
21–18	400	10 00	4,000	160	c1.20	192 00	1.75	280 00
3–20	....	.....	....	26	.50	13 00	1.50	39 00
22–26	110	10 00	1,100	100	c1.20	120 00	2.00	200 00
7–29	c100	10 00	1,000	60	c1.20	72 00	1.50	90 00
12–29	80	5 00	400	38	c.60	22 80	1.75	66 50
17–29	180	6 00	1,080	120	1.25	150 00	1.75	210 00
3–30	500	18 00	9,000	400	1.00	400 00	1.00	400 00
5–30	270	15 00	4.050	200	1.50	300 00	1.75	350 00
9–30	100	8 00	800	100	c 96	96 00	1.15	115 00
10–30	100	15 00	1,500	84	1.50	126 00	1.50	126 00
19–30	320	12 00	3,840	155	c1.44	223 20	1.35	209 25
30–35	350	30 00	10,500	265	2.20	583 00	1.50	397 50
30–36	230	20 00	4,600	150	c2.40	360 00	2.00	300 00
14–38	250	8 00	2,000	135	1.00	135 00	1 25	168 75
	a4050	b13 99	a56,670	a2,618	b1.393	a3,648 00	b1.516	a3969 25

aTotals for State. bAverages for State. cEstimated.

COST OF PRODUCING WHEAT FOR 1892—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Amount Seed Per Acre.	Total Seed – Bushels.	Value Seed Per Acre.	Value Seed Per Bushel.	Total Value of Seed.	Cost of Seeding Per Acre.	Total Cost of Seeding.	Hail Insurance Per Acre.
9–5	1.50	75	$ .90	$ .60	$ 45 00	$ .60	$ 30 00	$.....
2–7	2.00	340	1.20	.60	204 00	.25	42 50	.....
10–9	1.50	165	1.20	.80	132 00	.50	55 00	.....
4–10	1.25	50	.85	.68	34 00	.35	14 00	.....
17–11	1.50	202	.90	.60	121 50	.75	101 25	.....
57–12	1.50	180	.80	.533	96 00	.50	60 00	.....
21–13	1.50	240	.80	.533	128 00	.25	40 00	.....
3–20	1.50	39	.75	.50	19 50	.50	13 00	.....
22–26	1.00	150	.90	.60	90 00	.40	40 00	.....
7–29	1.50	90	.90	.60	54 00	.30	18 00	.....
12–29	2.00	76	1.20	.60	45 60	.25	9 50	.....
17–29	1.50	180	1.20	.80	144 00	.50	60 00	.....
3–30	1.25	500	.90	.72	360 00	.25	100 00	.....
5–30	1.25	250	.75	.60	150 00	.50	100 00	.25
9–30	1.25	125	.90	.56	70 00	.25	25 00	.25
10–30	1.25	105	.90	.72	75 60	.47	39 48	.....
19–30	1.50	233	1.20	.80	186 00	.45	69 75	.....
30–35	1.75	464	1.25	.714	331 25	.60	159 00	.....
30–36	2.00	300	1.60	.80	240 00	1.25	187 50	.35
14–38	1.25	169	.66	.528	89 10	.50	67 50	.25
	b1.502	a3533	.999	.665	a2,615 55	b.470	a1,231 48	.276

aTotal for State. bAverage for State.
Insured against hail, 585 acres.

COST OF PRODUCING WHEAT FOR 1892—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Total Cost of Hail Insurance.	Cutting and Binding Per Acre.	Total Cost of Cutting and Binding.	Shocking Per Acre.	Total Cost of Shocking.	Stacking Per Acre.	Total Cost of Stacking.
9–5	.....	$ 0 75	$ 37 50	$0.30	$ 15 00	$ .50	$ 25 00
2–7	.....	1 00	170 00	.20	34 00	.....	.....
10–9	.....	75	82 50	.25	27 50	.....	.....
4–10	.....	85	34 00	.15	6 00	.50	20 00
17–11	.....	1 00	135 00	.25	33 75	.....	.....
57–12	.....	1 00	120 00	.25	30 00	.60	72 00
21–13	.....	1 00	160 00	.....	.....	.....	.....
3–20	.....	1 50	39 00	.25	6 50	.50	13 00
22–26	.....	75	75 00	.14	14 00	.....	.....
7–29	.....	75	45 00	.20	12 00	.....	.....
12–29	.....	1 00	38 00	.20	7 60	.35	13 30
17–29	.....	80	96 00	.15	18 00	.30	36 00
3–30	.....	1 00	400 00	.10	40 00	.....	.....
5–30	50 00	1 10	220 00	.30	60 00	.40	80 00
9–30	25 00	75	75 00	.25	25 00	.60	60 00
10–30	.....	1 25	105 00	.15	12 60	.63	52 92
19–30	.....	1 10	170 50	.18	27 90	.....	.....
30–35	.....	1 00	265 00	.20	53 00	.50	132 50
30–36	52 50	95	142 50	.25	37 50	.....	.....
14–38	33 75	1 05	141 75	.25	33 75	.....	.....
	a161 21	b974	a2,551 75	b.201	a494 10	b.484	a504 72

aTotals for State. bAverages for State.
Shocking, per acre, 2,458 acres; stacking, per acre, 1,043 acres.

COST OF PRODUCING WHEAT FOR 1892—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Threshing—Per Acre.	Total Cost of Threshing.	Storing—Per Acre.	Total Cost of Storing.	Average Y'ld Per Acre.	Total Yield—Bushels.	Miles to Market.
9–5	$1.09	$ 54 50	.....	.....	18	900	15
2–7	2.00	340 00	.20	34.00	20	3,400	21
10–9	1.00	110 00	.....	8.00	17	1,870	10
4–10	1.35	54 00	.20	.....	11	440	.....
17–11	1.50	202 50	.....	.....	15	2,025	20
57–12	2.00	240 00	.....	.....	20	2,400	8
21–13	1.36	217 60	.....	.....	16	3,560	20
3–20	1.10	28 60	.....	.....	11	286	30
22–26	.70	70 00	.....	.....	7	700	8
7–29	1.90	114 00	.....	.....	29.5	1,770	18
12–29	1.80	68 40	.....	.....	20	760	2
17–29	.80	96 00	.....	.....	10	1,200	1.5
3–30	2.25	900 00	.....	.....	18	7,200	4
5–30	1.25	250 00	.05	10.00	18	3,600	1.5
9–30	1.50	150 00	.....	.....	20	2,000	7
10–30	1.22	102 48	.....	.....	15	1,260	3
19–30	2.45	279 75	.....	.....	21.5	3,332	2
30–35	2.00	530 00	.....	.....	19	5,035	.25
30–36	2.00	300 00	.....	.....	17	2,550	6
14–38	1.45	195 75	.....	.....	14.5	1,958	13
	b1.644	a4,303 58	b.127	a52.00	b17.28	a45,246	b8.14

aTotals for State. bAverages for State,
Acres stored, 410; acres hauled to market, 2,578; bushels hauled to market, 44,806.

COST OF PRODUCING WHEAT FOR 1892—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Bushel-Miles —Product.	Cost to Market Pr Acre	Total Cost of Marketing.	Other Expn's Per Acre.	Total Other Expenses	Total Cost Per Acre.	Total Cost of Crop.	Cost Per Bushel.
9–5	13,500	$1.00	$ 50 00	....	.....	$ 7.14	$ 357 00	$.397
2–7	71,400	.95	161 50	....	.....	9.30	1,581 00	.465
10–9	18,700	.75	82 50	....	.....	7.05	775 50	.415
4–10	.....	*	.....	....	.....	6.75	270 00	.614
17–11	40,500	1.50	202 50	....	.....	8.65	1,167 75	.577
57–12	19,200	.80	96 00	....	.....	9.45	1,134 00	.4725
21–13	51,200	1.28	204 80	....	.....	7.64	1,222 40	.4775
3–20	8,580	2.20	57 20	....	.....	8.80	228 80	.800
22–26	5,600	.28	28 00	....	.....	6.37	637 00	.910
7–29	31,860	1.35	81 00	....	.....	8.10	486 00	.275
12–29	1,520	.40	15 20	....	.....	7.55	286 90	.3775
17–29	1,800	.30	36 00	....	.....	7.05	846 00	.705
3–30	28,800	.50	200 00	....	.....	7.00	2,800 00	.389
5–30	5,400	.30	60 00	....	.....	8.15	1,630 00	.453
9–30	14,000	.80	80 00	....	.....	7.21	721 00	.3105
10–30	3,780	.40	33 60	....	.....	8.02	673 68	.535
19–30	6,664	.30	46 50	....	.....	8.47	1,312 85	.394
30–35	1.259	.19	50 35	....	.....	9.44	2,501 60	.497
30–36	15,300	.80	120 00	....	.....	11.60	1,740 00	.682
14–38	25,454	1.10	148 50	....	.....	7.51	1,013 85	.518
	a364,517	b.680	a1,753 65	....	.....	b8.169	a21,385 33	b.4726

aTotals for state. bAverages for state.
*Not hauled to market but fed on the farm.

COST OF PRODUCING WHEAT FOR 1891.

FOR DRILLS AND BINDERS.

No.	Acres in Farm.	Value Per Acre.	Total Value.	Acres in Wheat.	Rent Per Acre.	Total Rent.	Plowing Per Acre.	Total Cost of Plowing.
2–1	....	.....	.....	c200	.....	.....	.....	.....
15–10	95	$12 00	$ 1,140	27	$1.00	$ 27 00	$1.75	$ 47 25
23–11	600	14 00	8,400	320	2 50	800 00	1.50	480 00
5–12	320	18 75	6,000	320	2.00	640 00	1.75	560 00
7–12	320	25 00	8,000	235	2.50	587 50	1.25	293 75
5–15	175	12 00	2,100	135	3.00	405 00	2.25	303 75
20–21	96	7 00	672	60	c.84	50 40	*	.....
3–22	600	10 00	6,000	350	1.00	350 00	1.75	612 50
5–22	300	10 00	3,000	175	1.00	175 00	2.00	350 00
5–24	175	15 00	2,625	100	2.00	200 00	1.75	175 00
17–24	320	15 00	4,800	200	2.00	400 00	2.00	400 00
34–24	233	10 00	2,330	233	2.00	466 00	1.75	407 75
43–24	300	20 00	6,000	176	2.50	440 00	1.60	281 60
2–26	600	12 00	7,200	380	2.00	760 00	1.75	665 00
3–28	135	25 00	3,375	65	2.50	162 50	1.50	97 50
8–29	125	10 00	1,250	100	c1.20	120 00	1.70	170 00
3–30	400	15 00	6,000	300	1.00	300 00	1.25	375 00
7–31	70	6 00	420	18	c.72	12 96	*	.....
16–31	100	10 00	1,000	46	.50	23 00	1.00	46 00
17–31	250	5 00	1,250	120	1.00	120 00	1.75	210 00
34–32	130	c12 00	1,560	110	c1.25	137 50	1.25	137 50
36–32	780	15 00	11,700	472	1.50	708 00	1.30	613 60
9–33	....	.....	.....	c100	1.25	125 00	1.46	146 00
30–35	350	25 00	8,750	250	2.20	550 00	1.50	375 00
31–36	450	20 00	9,000	350	3.00	1,050 00	1.60	560 00
	a6924	b14 81	a102,572	a4,842	b1.855	a8,609 86	b1.601	a7,307 20

aTotals for State. bAverages for State. cEstimated.
*No plowing done, but wheat drilled in on corn and millet ground.
For which rent is given, 4,642 acres; 4,564 acres plowed.

COST OF PRODUCING WHEAT FOR 1891—*Continued.*

FOR DRILLS AND BINDERS.

No.	Am't Seed Pr Acre.	Total Seed Bushels.	Value Seed Per Acre.	Value Seed Per Bushel.	Total Value of Seed.	Cost of Drilling Per Acre.	Total Cost of Drilling.	Hail Insurance Per Acre.
2–1	....	.....	.....	.....	.....	.....	.....	.....
15–10	1	27	$0.75	$0.75	$ 20 25	$ .30	$ 8 10	.....
23–11	1.25	400	1.20	.96	384 00	.40	128 00	.....
5–12	1.25	400	1.00	.80	320 00	.375	120 00	$ .25
7–12	1.25	294	.75	.60	176 25	.25	58 75	.....
5–15	1	135	.85	.85	114 75	.50	67 50	.....
20–21	1	60	.65	.65	39 00	.40	24 00	.25
3–22	1	350	.75	.75	262 50	.50	175 00	.....
5–22	1	175	.87	.87	152 25	.40	70 00	.....
5–24	1.50	150	1.20	.80	120 00	.40	40 00	.25
17–24	1.75	350	1.10	.629	220 00	.35	70 00	.21
34–24	1	233	.70	.70	163 10	.25	58 25	.....
43–24	1	176	.75	.75	132 00	.40	70 40	.....
2–26	1.25	475	.90	.72	342 00	.25	95 00	.....
3–28	1.25	81	1.37	1.096	89 05	.70	45 50	.....
8–29	1	100	.60	.60	60 00	.35	35 00	.....
3–30	1	300	.70	.70	210 00	.35	105 00	.....
7–31	1.25	23	.80	.64	14 40	.35	6 30	.....
16–31	.75	34	.60	.80	27 60	.50	23 00	.25
17–31	1	120	.70	.70	84 00	.50	60 00	.50
34–32	1	110	c.70	.70	77 00	.30	33 00	.25
36–32	1.125	531	.85	.756	401 20	.40	188 80	.25
9–33	1	100	.59	.59	59 00	.46	46 00	.....
30–35	1.25	313	.85	.68	212 50	.50	125 00	.....
31–36	1.166	408	.80	.686	280 00	.40	140 00	.....
	b1.151	a5,345	b.853	b.741	a3,960 85	b.386	a1,792 60	b.265

aTotals for state. bAverages for state. cEstimated.
Acres insured against hail, 1,428.

COST OF PRODUCING WHEAT FOR 1891—*Continued.*

FOR DRILLS AND BINDERS.

No.	Total Cost of Hail Insurance.	Cutting and Binding Per Acre.	Total Cost of Cutting and Binding.	Shocking Per Acre.	Total Cost of Shocking.	Stacking Per Acre.	Total Cost of Stacking.
2-1	.....	.....	.....	.....	.....	.....	.....
15-10	.....	$ 1 00	$ 27 00	$0.18	$ 4 86	$ .75	$ 20 25
23-11	.....	70	224 00	.30	96 00	.....	.....
5-12	$ 80 00	1 00	320 00	.25	80 00	.....	.....
7-12	.....	1 25	293 75	.25	58 75	.....	.....
5-15	.....	1 00	135 00	.25	33 75	.....	.....
20-21	15 00	1 00	60 00	.50	30 00	.....	.....
3-22	.....	1 50	525 00	.25	87 50	.....	.....
5-22	.....	1 40	245 00	.30	52 50	.....	.....
5-24	25 00	70	70 00	.20	20 00	.60	60 00
17-24	42 00	80	160 00	.16	32 00	.....	.....
34-24	.....	1 50	349 50	.25	58 25	.....	.....
43-24	.....	1 00	176 00	.20	35 20	1.00	176 00
2-26	.....	1 00	380 00	.25	95 00	.....	.....
3-28	.....	1 32	85 80	.40	26 00	1.50	97 50
8-29	.....	90	90 00	.20	20 00	.....	.....
3-30	.....	1 00	300 00	.10	30 00	.....	.....
7-31	.....	1 60	28 80	.40	7 20	1.00	18 00
16-31	11 50	1 00	46 00	.40	18 40	.90	41 40
17-31	60 00	1 25	150 00	.25	30 00	.....	.....
34-32	27 50	90	99 00	.25	27 50	.....	.....
36-32	118 00	1 00	472 00	.20	94 40	.....	.....
9-33	.....	89	89 00	.20	20 00	.....	.....
30-35	.....	1 00	250 00	.25	62 50	.50	125 00
31-36	.....	1 00	350 00	.25	87 50	.65	227 50
	a379 00	b1 061	a4,925 85	b.239	a1,107 31	b.742	a765 65

aTotals for state. bAverages for state.
Acres stacked, 1,032.

COST OF PRODUCING WHEAT FOR 1891--*Continued.*

FOR DRILLS AND BINDERS.

No.	Threshing Per Acre.	Total Cost of Threshing.	Storing Per Acre.	Total Cost of Storing.	Average Yield Per Acre.	Total Product, Bushels.	Miles to Market.
2-1	.....	.....	.....	.....	30	6,000	.....
15-10	$ 1.90	$ 51.30	.....	.....	26	702	26
23-11	3.35	1,072.00	.....	.....	31	9,920	3
5-12	2.50	800.00	.....	.....	25	8,000	7.5
7-12	3.50	822.50	.....	.....	35	8,225	2.5
5-15	2.00	270.00	.....	.....	17	2,295	6
20-21	3.00	180.00	.....	.....	30	1,800	5
3-22	3.00	1,050.00	.....	.....	32	11,200	20
5-22	4.20	735.00	.....	.....	35	6,125	10
5-24	2.03	203.00	.....	.....	29	2,900	2
17-24	2.80	560.00	.....	.....	28	5,600	2.5
34-24	2.60	605.80	$0 .30	$ 69.90	26	6,058	10
43-24	2.00	352.00	.30	52.80	28	4,928	4
2-26	3.30	1,254.00	.35	133.00	35	13,300	6
3-28	1.95	126.75	.....	.....	21	1.365	3
8-29	2.80	280.00	.....	.....	28.5	2,850	17
3-30	3.00	900.00	.....	.....	25	7,500	4
7-31	3.50	63.00	.....	.....	46.5	837	4.5
16-31	3.60	165.60	.....	.....	45	2,070	1
17-31	3.42	410.40	.....	.....	36	4.320	4
34-32	3.25	357.50	.....	.....	26	2,860	5
36-32	2.50	1,180.00	.14	66.08	25	11,800	5
9-33	2.00	200.00	.....	.....	20	2,000	3.5
30-35	2.00	500.00	.....	.....	27	6,750	.25
31-36	2.17	759.50	.....	.....	29	10,150	1
	a2.779	12898.35	b.255	a321.78	b28.82	a139,555	b6.10

aTotals for State. bAverages for State.
Acres threshed, 4,642 acres; stored, 1,261 acres; total bushels hauled to market, 133,555 bu.

COST OF PRODUCING WHEAT FOR 1891—*Continued.*

FOR DRILLS AND BINDERS.

No.	Bushel-Miles —Product.	Cost to Market, Pr Acre	Total Cost to Market Crop.	Other Expenses Per Acre.	Total Other Expenses.	Total Cost Per Acre.	Total Cost of Crop.	Cost Per Bushel.
2–1	.....	$....	$.....	....	....	$7 24	$ 1,448 00	$ .241
15–10	18,252	2.60	70 20	....	....	10 23	276 21	.393
23–11	29,760	.93	297 60	....	....	10 88	3,481 60	.351
5–12	60,000	1.00	320 00	....	....	10 125	3,240 00	.405
7–12	20,562	.70	164 50	....	....	10 45	2,455 75	.299
5–15	13,770	.85	114 75	....	....	10 70	1,440 50	.629
20–21	9,000	.90	54 00	....	....	7 54	452 40	.251
3–22	224,000	3.20	1,120 00	....	....	11 95	4,182 50	.373
5–22	61,250	2.10	367 50	....	....	12 27	2,147 25	.351
5–24	5,800	.40	40 00	....	....	9 53	953 00	.329
17–24	14,000	.56	112 00	....	....	9 98	1,996 00	.356
34–24	60,580	1.60	372 80	....	....	10 95	2,551 35	.421
43–24	19.712	.80	140 80	....	....	10 55	1,856 80	.377
2–26	79,800	1.22	463 60	....	....	11 02	4,187 60	.315
3–28	4,095	.74	48 10	....	....	11 98	778 70	.570
8–29	48,450	2.24	224 00	....	....	9 99	999 00	.351
3–30	30,000	c.50	150 00	....	....	7 90	2,370 00	.316
7–31	3,764	1.50	27 00	....	....	9 87	177 66	.212
16–31	2,070	.45	20 70	....	....	9 20	423 20	.204
17–31	17,280	1.08	129 60	....	....	10 45	1,254 00	.290
34–32	14,300	.65	71 50	....	....	8 80	968 00	.338
36–32	59 000	.50	236 00	....	....	8 64	4,078 08	.346
9–33	7,000	.70	70 00	....	....	7 55	755 00	.377
30–35	1,687	.27	67 50	....	....	9 07	2,267 50	.336
31–36	10,150	.50	175 00	....	....	10 37	3,629 50	.358
	a814,282	b1.046	a4,857 15	....	....	b9.990	a48.369 60	.347

aTotals for State. bAverages for State. cEstimated.
Acres hauled to market, 4,642; acres for which total cost is given, 4,842.

COST OF PRODUCING WHEAT FOR 1891.

FOR BROADCAST SEEDERS AND BINDERS.

No.	Acres in Farm.	Value Per Acre.	Total Value.	Acres in Wheat.	Rent Per Acre.	Total Rent.	Plowing Per Acre.	Total Cost of Plowing.
1-2	175	7	$ 1,225	100	$ 3.00	$ 300.00	$ 2.00	$ 200.00
13-4	260	4.50	1,170	250	.25	62.50	1.00	250.00
9-5	85	20	1,700	40	1.00	40.00	1.70	68.00
2-9	180	12	2,160	150	2.50	375.00	1.50	225.00
17-8	550	c10	5,500	250	1.00	250.00	2.00	500.00
25-8	143	4.50	600	63	.75	47.25	1.40	88.20
10-9	150	8	1,200	110	1.00	110.00	1.60	176.00
6-10	40	10	400	40	1.50	60.00	2.00	80.00
17-11	450	6	2,700	300	1.00	300.00	1.75	525.00
57-12	200	14	2,800	130	1.50	195.00	2 00	260.00
14-14	175	8	1,400	75	1.00	75.00	1.00	75.00
8-18	75	4	300	36	.75	27.00	1.30	46.80
3-20	c100	2.50	250	25	.50	12 50	1.50	37.50
15-21	80	c8	640	30	c.96	28.80	1.80	54.00
22-26	100	10	1,000	90	1.00	90.00	2.00	180.00
7-29	60	c10	600	50	c1.20	60.00	1.50	75.00
17-29	150	6	900	100	1.25	125.00	1.75	175.00
3-30	400	15	6,000	300	1.00	300.00	1.25	375.00
10-30	90	15	1,350	90	1.50	135.00	1.50	135.00
19-30	320	12	3,840	175	c1.44	252.00	1.50	262.50
20-30	110	10	1,100	70	1.00	70.00	1.00	70.00
30-35	350	25	8,750	250	2.20	550.00	1.50	375.00
30-36	230	20	4,600	200	c2.40	480.00	1.50	300.00
14-38	250	5	1,250	130	1 00	130 00	1.25	162.50
	a4,723	b10.90	a51,479	a3,054	b1.334	a4,075.05	b1.537	a 4,695.50

aTotals for state. bAverages for state. cEstimated.

COST OF PRODUCING WHEAT FOR 1891—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Amount Seed Per Acre.	Total Seed—Bushels.	Value Seed Per Acre.	Value of Seed Per Bushel.	Total Value of Seed.	Cost of Seeding Per Acre.	Total Cost of Seeding.	Hail Ins. Per Acre.
1-2	1.50	150	$1.00	$ .667	$ 100.00	$.50	$ 50.00	.....
13-4	1	250	.60	.60	150.00	.20	50.00	.....
9-5	1.50	60	1.05	.70	42.00	.60	24.00	.....
2-9	2	300	1.20	.60	180.00	.25	37.50	.....
17-8	1.50	375	.90	.60	225.00	.35	87.50	.....
25-8	1.25	79	1.10	.88	69.30	.385	24.26	.....
10-9	1.50	165	1.50	1.00	165.00	.50	55.00	.....
6-10	1	40	.80	.80	32.00	.40	16.00	.....
17-11	1.50	450	.90	.60	270.00	.75	225.00	.....
57-12	1.50	195	1.00	.667	130.00	.50	65.00	.....
14-14	1.50	112	1.125	.75	84.37	.25	18.75	.....
8-18	1.25	45	.75	.60	27.00	.20	7.20	$0.22
3-20	1.25	31	.80	.64	20.00	.50	12.50	.....
15-21	1.25	38	.90	.72	27.00	.10	3.00	.....
22-26	1.50	135	.90	.60	81.00	.40	36.00	.....
7-29	1.25	62	.85	.68	42.50	.50	25.00	.....
17-29	1.50	150	1.20	.80	120.00	.50	50.00	.....
3-30	1.25	375	.90	.72	270.00	.25	75.00	.....
10-30	1	90	1.14	1.14	102.60	.50	45.00	.....
19-30	1.25	219	1.10	.88	192.50	.50	87.50	.....
20-30	c1	70	.65	.65	45.50	.15	10.50	.....
30-35	1.75	438	1.25	.714	312.50	.60	150.00	.....
30-36	1.625	325	1.25	.769	250.00	.75	150.00	.50
14-38	1.25	162	.75	.60	97.50	.50	65.00	.25
	b1.413	a4,316	b.994	b.703	a3,035.77	b.448	a1,369.71	.384

aTotals for state. bAverages for state. cEstimated.
Acres insured against hail, 366.

COST OF PRODUCING WHEAT FOR 1891—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Total Cost Hail Insurance.	Cutting and Binding Per Acre.	Total Cost Cutting and Binding.	Shocking Per Acre.	Total Cost Shocking.	Stacking Per Acre.	Total Cost Stacking.
1-2	.....	$ 1.50	$ 150 00	$ .40	$ 40 00	.....	.....
13-4	.....	1.33	332 50	.16	40 00	.....	.....
9-5	.....	75	30 00	.30	12 00	$ .60	$ 24 00
2-9	.....	1.25	187 50	.25	37 50	.....	.....
17-8	.....	75	187 50	.14	35 00	.50	125 00
25-8	.....	1.03	64 89	.16	10 08	.40	25 20
10-9	.....	80	88 00	.25	27 50	.....	.....
6-10	.....	1.25	50 00	.20	8 00	.40	16 00
17-11	.....	1.00	300 00	.25	75 00	.....	.....
57-12	.....	1.30	169 00	.25	32 50	.80	104 00
14-14	.....	1.40	105 00	.25	18 75	.50	37 50
8-18	$ 7 92	1.10	39 60	.13	4 68	.75	27 00
3-20	.....	1.50	37 50	.25	6 25	.50	12 50
15-21	.....	1.10	33 00	.15	4 50	.45	13 50
22-26	.....	75	67 50	.14	12 60	.....	.....
7-29	.....	90	45 00	.18	9 00	.....	.....
17-29	.....	1.10	110 00	.30	30 00	.60	60 00
3-30	.....	1.00	300 00	.10	30 00	.....	.....
10-30	.....	1.30	117 00	.14	12 60	.66	59 40
19-30	.....	1.10	192 50	.20	35 00	.90	157 50
20-30	.....	75	52 50	.10	7 00	.65	45 50
30-35	.....	1.00	250 00	.25	62 50	.50	125 00
30-36	100 00	1.25	250 00	.50	100 00	.....	.....
14-38	32 50	1.05	136 50	.25	32 50	.....	.....
	a140 42	b1.079	a3,295 49	b.224	a682 96	b.606	a832 10

aTotals for state. bAverages for state.
Total grain stacked, 1,374 acres.

COST OF PRODUCING WHEAT FOR 1891—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Threshing Per Acre.	Total Cost of Threshing.	Storing Per Acre.	Total Cost of Storing.	Average Yield Per Acre.	Total Yield Bushels.	Miles to Market.
1–2	3.00	$300 00	$ .25	$ 25 00	28	2,800	3
13–4	2.30	575 00	.....	.....	27	6,750	3
9–5	1.50	60 00	.....	.....	25	1,000	15
2–9	2.75	412 50	.....	.....	30	4,500	21
17–8	.48	120 00	.....	.....	6	1,500	1.5
25–8	2.05	129 15	.....	.....	25.33	1,596	5
10–9	1.00	110 00	.....	.....	16	1,760	10
6–10	1.50	60 00	.....	.....	33	1,320	45
17–11	2.00	600 00	.....	.....	20	6,000	20
57–12	2.60	338 00	.....	.....	26	3,380	8
14–14	2.20	165 00	.44	33 00	22	1,650	3
8–18	2.00	72 00	.....	.....	22	792	40
3–20	2.50	62 50	.....	.....	26.2	655	30
15–21	2.80	84 00	.....	.....	32	960	2
22–26	1.90	171 00	.....	.....	19	1,710	8
7–29	3.00	150 00	.....	.....	37.25	1,863	18
17–29	1.60	160 00	.....	.....	20	2,000	1.5
3–30	3.00	900 00	.....	.....	25	7,500	4
10–30	1.35	121 50	.....	.....	15	1,350	3
19–30	1.50	262 50	.....	.....	22.5	3,937	2
20–30	2.18	152 60	.....	.....	18	1,260	3
30–35	2.00	500 00	.....	.....	27	6,750	.25
30–36	4.00	800 00	.....	.....	35	7,000	6
14–38	2.35	305 50	.....	.....	22	2,860	13
	b2.165	a6,611 25	b.331	a58 00	b23.21	a70,893	b8.57

a Totals for state. b Averages for state.
Acres stored, 175 acres.

COST OF PRODUCING WHEAT FOR 1891—*Continued.*

FOR BROADCAST SEEDERS AND BINDERS.

No.	Bushel-Miles, Product.	Cost to Market Per Acre.	Total Cost of Marketing Crop.	Other Expenses Per Acre.	Total Other Expenses.	Total Cost Per Acre.	Total Cost of Crop.	Cost Per Bu.
1-2	8,400	$0.75	$ 75 00	.....	.....	$12.40	$1,240 00	$0.443
13-4	20,250	.48	120 00	.....	.....	6.32	1,580 00	.234
9-5	15,000	1.45	58 00	.....	.....	8.95	358 00	.358
2-9	94,500	1.25	187 50	.....	.....	10.95	1,642 50	.365
17-8	2,250	.09	22 50	.....	.....	6.21	1,552 50	1.035
25-8	7,980	.51	32 13	.....	.....	7.785	490 46	.307
10-9	17,600	1.00	110 00	.....	.....	7.65	841 50	.478
6-10	59,400	2.64	105 60	.....	.....	10.69	427 60	.324
17-11	120,000	2.00	600 00	.....	.....	9.65	2,895 00	.482
57-12	27,040	1.04	135 20	.....	.....	10.99	1,428 70	.423
14-14	4,950	.66	49 50	* $1.00	$75.00	9.825	736 87	.447
8-18	31,680	2.86	102 96	.....	.....	10.06	362 16	.457
3-20	19,650	4.00	100 00	.....	.....	12.05	301 25	460
15-21	1,920	.50	15 00	.....	.....	8.76	262 80	.274
22-26	13,680	.76	68 40	.....	.....	7.85	706 50	.413
7-29	33,533	2.22	111 00	.....	.....	10.35	517 50	.278
17-29	3,000	.60	60 00	.....	.....	8.90	890 00	.445
3-30	30,000	c.50	150 00	.....	.....	8.00	2,400 00	.320
10-30	4,050	.75	67 50	.....	.....	8.84	795 60	.589
19-30	7,874	.30	52 50	.....	.....	8.54	1,494 50	.380
20-30	3,780	.35	24 50	.....	.....	6.83	478 10	.379
30-35	1,688	.27	67 50	.....	.....	9.57	2,392 50	.354
30-36	42,000	1.65	330 00	.....	.....	13.80	2,760 00	.394
14-38	37,180	1.75	227 50	.....	.....	9.15	1,189 50	.416
	a607,406	b.941	a2,872 29	b1.00	a75.00	b9.084	a27,743 54	b.391

* Plowing ground the second time, it being summer fallowed and replowed.
aTotals for state. bAverages for state. cEstimated.

SUMMARY OF ALL METHODS.

[NOTE.—It is proper to state that in this summary of all methods the acreages plowed, shocked, stacked, marketed, etc., are not necessarily the same as the acreages in wheat. The separate acreage subject to each operation could not be published without making the table very cumbersome, and they are therefore omitted, but they will be found in the manuscript copy preserved in the office.

Also, the details of the cost for the method designated as "Broadcast Seeders and Headers" for 1892 and 1891 are omitted from the foregoing tables, as the answers for this method were very few; but the summary is given here in the line indicated by D in the tables for 1892 and 1891.]

1893.

	Cultivated Acres in Farms	Value Per Acre.	Total Value of Farms.	Acres in Wheat.	Rent Per Acre.	Total Rent.
A	139,620	$ 16 93	$ 2,363,178	93,898	$ 1.801	$ 169,065 25
B	25,285	12 36	312,561	16.930	1.347	22,810 67
C	15,482	12 35	191,274	10,597	1.154	12,229 50
D	6,361	9 89	62,922	3,828	1.212	4,639 30
	a186,748	b15 69	a2,929,935	a125,253	b1.667	a208,744 72

1892.

A	8,738	14 79	129,244	6,343	1.589	9,695 08
B	4,050	13 99	56,679	2,618	1.393	3,648 00
C	2,430	10 79	26,215	1,860	1.188	2,209 30
D	998	12 40	12,380	675	1.033	697 50
	a16,216	b13 84	a224,509	a11,496	b1.444	a16,249 88

1891.

A	6,924	14 81	102,572	4,842	1.855	8,609 86
B	4,723	10 90	51,479	3,054	1.334	4,075 05
C	1,510	11 37	17,170	1,160	1.216	1,410 00
D	972	9 98	9,700	678	1.662	1,126 90
	a14,129	b12 80	a180,921	a9,734	b1.597	a15,221 81

A Drills and binders. B Broadcast and binders. C Drills and headers. D Broadcast and headers.

a Totals for State. b Averages for State.

1893.

	Plowing Per Acre.	Total Cost of Plowing.	Amount Seed Per Acre, Bushels.	Total Amt. Seed Used, Bushels.	Value Seed Per Acre.	Value Seed Per Bushel.	Total Value of Seed.	Cost Seeding or Drilling per Ac.
A	$1.360	$ 127,696 58	1.210	113,573	$.722	$.597	$67,786 12	$.369
B	1.517	25,676 85	1.454	24,614	.840	.578	14,226 05	.352
C	1.514	16,040 70	1.027	10,885	.599	.583	6,350 10	.382
D	1.448	5,543 00	1.214	4,646	.718	.592	2,748 25	.384
	b1.397	a174,957 13	b1.227	a153,718	b.727	b.593	a91,110 52	b.368

1892.

A	1.524	9,300 90	1.150	7,019	.771	.670	4,704 95	.394
B	1.516	3,969 25	1.502	3,933	.999	.665	2,615 55	.470
C	1.291	2,400 95	1.013	1,884	.652	.644	1,212 80	.377
D	1.074	725 00	1.236	834	.790	.640	533 50	.341
	b1.457	a16,396 10	b1.212	a13,670	b.806	b.663	a9,066 80	b.406

1891.

A	1.601	7,307 20	1.151	5,345	.853	.741	3,960 85	.386
B	1.537	4,695 50	1.413	4,316	.994	.703	3,035 77	.448
C	1.336	1,550 00	919	1,066	.817	.889	948 00	.426
D	1.320	894 70	1.128	765	.820	.726	555 74	.383
	b1.528	a14,447 40	b1.205	a11,492	b.892	b.740	a8,500 36	b.411

'A Drills and binders. B Broadcast and binders, C Drills and headers. D Broadcast and beaders.

aTotals for State. bAverages for State.

1893.

	Total Cost of Drilling or Seeding	No. Acres Insured Against Hail.	Cost Hail Ins. Per Acre.	Total Cost Hail Insurance	Cutting and Binding Per Acre.	Total Cost Cutting and Binding.	Heading and Stacking Per Acre.	Total Cost Heading and Stacking.
A	$34,606 47	20,742	$.216	$4488 54	$ .713	$66,908 84	$.....	$.....
B	5,951 40	3,655	.216	788 65	.835	14,134 79	.....	.....
C	4,049 94	1,182	.241	284 34	.....	.....	.861	9,120 87
D	1,471 60	1,117	.218	243 83	.....	.....	.904	3,459 45
	a46,079 41	a26,696	b.217	a5805 36	b.731	a81,043 63	b.872	a12580 32

1892.

A	2,403 90	2,038	.244	496 70	1.000	6,104 95	.....	.....
B	1,231 48	585	.276	161 25	.974	2,551 75	.....	.....
C	701 45	94	.270	25 38	.....	.....	.930	1,728 90
D	230 00	75	.250	18 75	.....	.....	1.000	675 00
	a4,566 83	a2,792	b.251	a702 08	b.993	a8,656 70	b.948	a2,403 90

1891.

A	1,792 60	1,428	.265	379 00	1.061	4,925 83	.....	.....
B	1,369 71	366	.384	140 42	1.079	3,295 49	.....	.....
C	494 50	110	.250	27 50	.....	.....	1.228	1,425 00
D	260 00	48	.220	10 56	.....	.....	1,037	703 00
	a3,916 81	a1,952	b.286	a557 48	b1.068	a8,221 32	b1.158	a2,128 00

A Drills and binders. B Broadcast and binders. C Drills and headers. D Broadcast and headers.

a Totals for State. b Averages for State.

1893.

	Shocking Per Acre.	Total Cost of Shocking.	Stacking Per Acre.	Total Cost of Stacking.	Threshing Per Acre.	Total Cost of Threshing.	Number Acres Stored.	Cost of Storing Pr Acre
A	$.196	$18,273 70	$.549	$8,177 95	$ 1.066	$ 100,117 35	19,275	$ .180
B	.185	3,131 88	.512	2,734 53	1.104	18,689 64	5,113	.243
C	....	.....	....	.....	.564	5,981 21	4.388	.156
D	....	.....	....	.....	.669	2,560 45	400	.056
	b.194	a21,405 58	b.540	a10,912 48	b1.017	a127,348 65	a29,176	b.186

1892.

A	.203	1,179 70	.570	935 79	1.660	10,132 86	1,408	.195
B	.201	494 10	.484	504 72	1.644	4,303 58	410	.127
C	....	.....	....	.....	1.109	2,063 20	960	.136
D	....	.....	....	.....	1.751	1,182 00	.....	.....
	b.203	a1,673 80	b.537	a1,440 51	b1.571	a17,681 64	a2,778	b.165

1891.

A	.239	1,107 31	.742	765 65	2.779	12,898 35	1,261	.255
B	.224	682 96	.606	832 10	2.165	6,611 25	175	.331
C	....	.....	....	.....	1.491	1,730 00	860	.497
D	....	.....	....	.....	1.847	1,252 56	.....	.....
	b.233	a1,790 27	b.664	a1,597 75	b2.359	a22,492 16	a2,296	b.351

A Drills and binders. B Broadcast and binders. C Drills and headers. D Broadcast and headers.

aTotals for State. bAverages for State.

1893.

	Total Cost of Storing.	Average Yield Per Acre, Bushels.	Total Yield—Bushels.	No. Acres Giving Miles to Market.	No. Bushels Giving Miles to Market.	Average No. Mil's to Market.	Bushel-Miles. Product.
A	$3,478.46	11.99	1,126,053	83,088	1,025,353	4.85	4,972,094
B	1,240.66	12.08	204,538	16,985	192,397	7.75	1,491,897
C	683.45	6.30	66,724	10,162	64,658	9.41	608,347
D	22.50	8.13	31,133	3,828	31,133	6.08	189,448
	a5,425.07	b11.40	a 1,428,448	a114,063	a 1,313,541	b5.53	a7,261,786

1892.

A	274.70	17.00	107,858	6,103	103,538	5.26	544,794
B	52.00	17.28	45,246	2,578	44,806	8.14	364,517
C	130.80	11.74	21,832	1,860	21,832	9.41	205,486
D	.....	15.72	10,612	675	10,612	4.61	48,896
	a457.50	b 16.48	a185,548	a11,216	a180,788	b6.44	a1,163,693

1891.

A	321.78	28.82	139,555	4,642	133,555	6.10	914,282
B	58.00	23.21	70,893	3,054	70,893	8.57	607,406
C	427.50	18.71	21,700	1,050	19,500	5.95	116,000
D		21.15	14,341	678	14,341	8.05	115,451
	a807.28	b24.40	a246,489	a9,424	a238,289	b6.94	a 1,655,139

A Drills and binders. B Broadcast and binders. C Drills and headers. D Broadcast and headers.

aTotals for State. bAverages for State.

1893.

	No. Acres Giving Cost of Marketing.	Average Cost of Marketing Per Acre.	Total Cost of Marketing.	No. Acres Giving Other Expenses	Average Other Expenses Per Acre.	Total Other Expenses.	Average Cost Per Acre.
A	83,088	$ 0.318	$ 26,442.94	16,765	$ .304	$5,103.50	$ 6.741
B	16,205	.460	7,458 63	1,722	.111	190.94	6.922
C	10,597	.262	2,776.71	430	.563	242.00	5.442
D	3,828	.236	903.80	.....	.....	.....	5.628
	a113,718	b.330	a37,582.08	a18,917	b.293	a5,536.44	b6.621

1892.

A	6,103	0.508	3,102.12	575	.309	177.50	7.873
B	2,578	.680	1,753.65	.....	.....	.....	8.169
C	1,860	.462	859.57	175	2.000	350.00	6.281
D	675	.475	320.75	.....	.....	.....	6.493
	a11,216	b.538	a6,036.09	a750	b.703	a527.50	b7.601

1891.

A	4,642	1.046	4,857.15	.....	.....	.....	9.990
B	3,054	.941	2,872.29	75	1.000	75.00	9.084
C	1,050	.576	605.00	.....	.....	.....	7.429
D	678	.784	531.88	.....	.....	.....	7.869
	a9,424	b.941	a8,866.32	a75	b1.000	a75.00	b9.253

A Drills and binders. B Broadcast and binders. C Drills and headers. D Broadcast and headers.

aTotals for State. bAverages for State.

1893.

	Total Cost of Raising Crop	Cost of Production Per Bushel.	No. Acres Giving Price Rec'd Per Bushel.	No. Bushels Giving Price Received Per Bushel.	Avge. Price Rec'd Per Bushel.	Average Price Rec'd Per Acre.	Total Receipts for Crops for Which Price Rec'd is Given.
A	$ 632,934 42	$.562	6,065	78,094	$.511	$ 6.576	$ 39,884 67
B	117,195 65	.573	993	14,583	.466	6.841	6,792 77
C	57,668 07	.864	432	2,544	.447	2.630	1,136 15
D	21,545 18	.692	44	440	.465	4.650	204 60
	a829,343 32	b.581	a7,534	a95,661	b.502	b6.374	a48,018 19

1892.

A	49,935 55	.463	2,485	45,107	.585	10.626	26,406 375
B	21,385 33	.473	730	12,720	.531	9.255	6,756 00
C	11,682 35	.535	471	7,851	.498	8.306	3,912 40
D	4,382 50	.413	400	7,200	.500	9.000	3,600 00
	a87,385 73	b.471	4,086	71,878	b.566	b9.955	a40,674 775

1891.

A	48,369 60	.347	1,475	42,495	.756	21.78	32,121 75
B	27,743 54	.391	1,383	34,329	.682	16.93	23,419 77
C	8,617 50	.397	300	7,500	.850	21.25	6,375 00
D	5,335 34	.372	348	8,041	.841	19.42	6,759 11
	a90,065 98	b.365	a3,506	92,365	b.744	b19.59	a68,675 63

A Drills and binders. B Broadcast and binders. C Drills and headers. D Broadcast and headers.

a Totals for State. b Averages for State.

1893.

	Profit Per Bushel—Average.	Profit Per Acre—Average.	Total Profit Made on Crops.	Loss Per Bushel—Average.	Loss Per Acre—Average.	Total Loss on Crops.	Av. Yield for Crops, for which price recd is Given. Bushels.
A	.....	.....	.....	$ .0245	$0.315	$1,909.52	12.88
B	.....	.....	.....	.0069	.101	100.68	14.69
C	.....	.....	.....	.4792	2.822	1,219.03	5.09
D	.....	.....	.....	.1600	1.600	70.40	10.80
	.....	.....	.....	b.0345	.437	a3,299.63	b12.70

1892.

A	$0.1377	$ 2.499	$ 6,209.575	.....	.....	.....	18.15
B	.0695	1.211	884.000	.....	.....	.....	17.42
C	.1007	1.678	790.540	.....	.....	.....	16.67
D	.1167	2.100	840.000	.....	.....	.....	18.00
	b.1214	b2.135	a8,724.115	.....	.....	.....	b17.59

1891.

A	.4266	12.290	18,127 40	.....	.....	.....	28.81
B	.3408	8.458	11,997 81	.....	.....	.....	24.82
C	.5780	14.450	4,335 00	.....	.....	.....	25.00
D	.5412	12.504	4,351 67	.....	.....	.....	23.11
	b.4170	b10.985	a38,511 88	.....	.....	.....	b26.34

A Drills and binders. B Broadcast and binders. C Drills and headers. D Broadcast and headers.

a Totals for State. b Averages for State.

GENERAL STATEMENTS.

The summary of the tables shows that 186,748 acres under cultivation were covered by the farmers that gave figures for 1893, 16,216 acres for 1892, and 14,129 acres for 1891.

The average value, as given by the farmers themselves, is $15.69 per acre in 1893, $13.84 per acre in 1892, and $12.80 per acre in 1891. This does not necessarily indicate an increase in value from year to year, which question can be determined only by comparing the same individual farms for the three years, which want of time has prevented being done. The probabilities are that such a comparison would show an actual increase in value from year to year, notwithstanding a small reduction in the assessed value. The data for making such a comparison is on file in the office and can be used whenever time and opportunity permit.

The acreage sown to wheat by the farmers that gave figures for 1893 was 125,253; for 1892, 11,496 acres; and for 1891, 9,734 acres.

The average rental placed upon the wheat acreage for 1893 by the farmers was $1.667 per acre; for 1892, $1.444 per acre; and for 1891, $1.597 per acre. The only explanation of the higher rate of rent in 1891 than in 1892 seems to be that the former being a year of large crops the farmers allowed themselves more liberal rent and other compensation than for the next year, which was one of light crops.

The cost of plowing, according to the tables, has decreased from year to year—being $1.397 per acre in 1893, $1.457 in 1892, and $1.528 in 1891. This is at least in part accounted for by the decrease in the cost of labor.

The cost of seed is shown to have been reduced each year, approximately with the market price of wheat.

For harvesting, threshing, etc., the cost is largely reduced per acre each year—due chiely to the reduced yield of the crops. Threshing appears to have been slightly reduced per bushel, ranging from nine to nine and a half cents per bushel each year for shock and stack threshing taken together.

The charge for storage was made for but comparatively little of the grain—a little more than one-fifth each year. Instructions were given when necessary that storage should not be charged for

holding grain a long time, for then the charge would become one for speculation instead of a part of the cost of production. Not enough answers to this question were received to make the averages very reliable, but those that were received show an average charge in the neighborhood of a cent and a half per bushel for 1891 and 1893, and a little more than a cent per bushel for 1892.

The average yield of the 125,253 acres in 1893 was 11.40 bushels per acre; for the 11,496 acres in 1893, 16.48 bushels per acre; and for the 9,734 acres in 1891, 24.40 bushels per acre—in each case a little more than the average for the State the difference being greater for 1892 and 1891 than for 1893.

On the face of the returns it appears that the grain is a little nearer market each year—the average distance being 6.94 miles in 1891, 6.44 miles in 1892, and 5.53 miles in 1893. Some new stations and elevators have been opened each year, but the differences shown may be partly accounted for by the small number of reports received for 1891 and 1892, which may not be fairly representative of the distances the grain was hauled to market. The cost of hauling to market per bushel has grown slightly cheaper each year, but when reduced to the cost per bushel per mile there is little difference in the cost for the three years—being not far from half a cent per bushel per mile for each year.

The total cost of production per acre is materially reduced each year, while the cost per bushel is materially increased—owing to the differences in yield of crops.

As the blank form was prepared, there was a question, asking the price realized when the wheat was sold; but in making a copy for the printer this question was accidentally omitted. Those that volunteered to state the price received average 50.2 cents per bushel for 1893, 56.6 cents for 1892, and 74.4 cents for 1891. These figures are probably above the real average, as perhaps only the best farmers who realized the largest prices volunteered to give the amount. The answers to this question were so few that they are omitted in the published tables.

The reports of the United States government for the three years make the average farm value of wheat of North Dakota 43 cents per bushel in 1893, 52 cents per bushel in 1892, and 70 cents per bushel in 1891. These figures are probably rather conservative than otherwise, and represent the farm value instead of at the elevators or railroad stations. But accepting them as correct, adding the cost of marketing as given in these tables, and using as the average yield the actual averages as found by the assessors each year, we obtain the following results:

For 1893 the average yield of wheat was 10.51 bushels per acre for the entire State. The price given by the government, 43 cents, plus the cost of marketing, about three cents per bushel, makes a value at the elevators 46 cents per bushel, which gives $4.834 per acre as the average proceeds of the wheat crop. The

average cost of raising and marketing the crop, as given in these tables, was $6.621 per acre—making, according to the face of the returns, a loss of $1.787 per acre. The average rent charged the same year was $1.667 per acre; so that, according to these figures, the average farmer lost all his rent, or interest on his investment, and 12 cents per acre besides. It does not follow, however, that the farmer received no returns for his year's labor. It is supposed that these figures are made out on the basis of the farmer earning fair wages for himself while raising his own crop, besides a fair compensation for his teams, machinery, etc. Then, at even the very small yield and very low prices of 1893, the crop of the year furnished the average farmer employment at a fair compensation for his time and his teams and implements, but gave him nothing for taxes and repairs, no interest on his investment, and took from him 12 cents per acre which he had earned as wages.

For 1892 the average yield for the State was 13.88 bushels per acre, which at the price of 52 cents per bushel given by the Government plus the 3¼ cents per bushel for hauling to market, or 55¼ cents per bushel, makes $7.669 per acre as the proceeds of the crop for that year. The cost of production for the same year averaged $7.601 per acre—leaving a net profit of 6.8 cents per acre—not a munificently paying business, but better than a loss.

For 1891 the average yield of the State was 20.48 bushels per acre, which at 70 cents per bushel plus the 3.8 cents per bushel for hauling to market, makes an average of $15.115 per acre as the proceeds of that year's crop. The cost of production the same year was $9.253 per acre, which leaves a net profit of $5.862 per acre, after paying the farmer fair wages for all his work and the rent or interest of $1.597 per acre. While this year gave great profits, it was an exceptional year—there certainly not having been more than two such seasons in the last ten years.

Omitting the item of rent, the farmers in 1893 averaged to lose three-fourths of 1 per cent. on their investment, besides the actual outlay for taxes and repairs. In 1892 they averaged to make 10.92 per cent. on their investment, out of which must come the cost of taxes and repairs. In 1891 they made an average of 58.27 per cent. on their investment, out of which must come taxes and repairs.

It is probable that the average cost of production as here given is a trifle too high, as the cost increases with the yield of the crop, and the average yield of the land represented in these reports is shown to be larger than the average for the State. If this is the case, the loss for 1893 would be correspondingly smaller than is here given, and the profits for 1892 and 1891 would be increased proportionately. This, however, will make but a slight difference, if any at all.

WHAT THE FARMERS SAY.

REMARKS ON THE CROP OF 1893.

BARNES COUNTY.

2-1.

I was fortunate in having good weather during threshing, which accounts for the low cost, 7 cents per bushel from the shock. Help was also half a dollar a day cheaper than formerly. Because of good weather and cheap help my cost per acre for 1893 is but $5.40 for a 15-bushel crop; but I think the average cost in this county for the last ten years has been between $6.50 and $7 per acre. I use drill entirely, as broad-cast sown grain blows out.

5-1.

In threshing I furnish my own crew and pay the machine 4 cents per bushel; my experience is that this is cheaper than to pay 10 cents per bushel and furnish nothing.

7-1.

I seeded about 10 acres with a Hoe drill, and found it gave about 2 bushels more per acre than the broad-cast. In a wet season broad casting will do as well as any, but not in dry years.

14-1.

One man who gives his cost of threshing at 12½ cents per bushel, says: "The reason my threshing is so cheap is I own my own thread-power thresher. When a steamer is employed it costs just double per acre."

15-1.

Wheat raising is a bonanza—to somebody else.

20-1.

Would estimate the average cost of raising wheat for, say, a period of ten years, in this State. at $8.25 per acre. [He gives the cost for 1893 at $6.77 per acre.]

BENSON COUNTY.

3-2

My summer fallow (yield 11 bushels per acre) took four pounds of twine per acre, at 12 cents per pound. I always use a drill, and seed four pecks per acre; and the drilled wheat averaged three bushels per acre more than that sown with a seeder and a bushel and a half per acre, on the same ground.

11-2

Fifty acres of my wheat was on summer-fallow, and I got 1,000 bushels from it; the other 150 acres was sown on burnt stubble, and produced 2,200 bushels—20 bushels per acre in the former case, and $14\frac{2}{3}$ in the latter.

15-2

I use a broad-cast seeder. My experience is that the secret in raising wheat is good plowing and dragging. [His average yield is $19\frac{3}{4}$ bushels.]

BOTTINEAU COUNTY.

10-4.

For all seeding I consider the drill the best, although I have raised just as much from broadcast seeding. If grain is sown late broadcast it does not come up all at the same time. With drill I use three pecks per acre, and with broadcast seeder a bushel and a peck.

13-4.

A heavy wind shook off one-third of my crop. My seed was Town in the Turtle Mountains, and was very white and soft. he change was marvelous, as when thr eshed it was all No. 1 hard. I do all my work with four horses to one man.

22-4.

The cost of threshing and help was less than usual this year, owing to light crop and plenty of harvest hands.

23-4.

Crops very light in this country in 1893, owing to the very hot weather in July—for a few days it was up to 105 in the shade; also a wind storm when wheat was ripe shelled out one-third of it.

24-4.

If wheat does not bring more money I shall have to turn to something else.

BURLEIGH COUNTY.

2-5

A farmer who gives his cost of plowing at 30 cents per acre, and seeding at 7 cents, gives this explanation, which appears a very good one: "For plowing I substitute discing, and include

in its cost not only the cost of discing but also the subsequent harrowing. The seed was sown previous to discing with a seeder of the 'shot-gun' variety--which is a very cheap and effective tool--capable of sowing 50 to 60 acres per day; so you will see that 7 cents per acre is a very liberal estimate of the cost of sowing. I am not prepared to say that this method of broad-casting is better or cheaper than drilling; but with 40-cent wheat the extra seed used in broad-casting costs but little, and it takes a good many bushels of wheat to make up the difference in cost of a $12 shot-gun seeder and a $100 press drill. These figures I gave will represent a profit to the farmer on account of team labor and rent of land if he owns his land. To the man owning his land and teams the actual outlay would be for labor and wear and tear as well as feed bill, about $2.19 per acre. Teams should be handled so that growth of young stock and increase will of themselves represent a profit, and the man who does not do this is losing on his stock and investment. Heading reduces the expense 40 cents per acre."

12-5

Fifty acres ruined by Russian cactus--not worth cutting. (This man gives the cost of seeding at 5 cents per acre, and of hauling five miles to market at 3 cents per acre—7 bushels--and on being asked if these items were not too low, answers: "Can't change nothing.") The plowing given at 47½ cents per acre is itemized thus: Seventy acres plowed, at $1.00 per acre; 210 acres disced, at 30 cents per acre—making an average of 47½ cents for the 280 acres.

15-5

One whose crop averaged 3 bushels per acre, and cost him about $1.74 per bushel, says: "The same ground with the same cultivation gave me over 30 bushels per acre in 1891."

21-5

The cost of plowing for 1893 ($1.25) was a little above the average for other years, as I plowed it about ten inches deep.

23—5.

Experience has proven that if land is plowed good it will grow two crops of wheat by burning the stubble and using a disc harrow. The Russian thistle damaged wheat in this township nearly one-fourth.

24—5.

My opinion and experience are that broadcast seeding is the best.

CASS COUNTY.

16-6

I sowed part broad-cast, and part with a press drill. The drilled

was a little ahead of the broad-cast in yield, and more uniform throughout. I prefer the drill.

23-6

My exact expenses are not as high as I have given, but are what it would cost to hire the work done. My total cash expenses, not including household expenses, were $413; so that it cost me to bring my crop of 176 acres of wheat to the granary only $2.35 per acre (not counting rent). The balance is my earning.

25-6

Some of my land was new breaking, and so required more labor to prepare it for seed.

28-6

One man and four horses will drill thirty acres per day—$1.00 per day for the man, $2.00 per day for the four horses, and $1.25 per day for boarding man and horses, will make the cost of drilling about 15 cents per acre.

37-6

A person who owns land and hires his work done, just so far as he hires his horse work and machinery work done, just so far he is not a complete farmer, and his crop will cost him as much more per acre than it should as the profit made by the contractors he hires to do his work make for the use of their horses and machinery; and besides also probably a heavy loss from poorly executed work. I do with my own teams and machinery all operations on the farm, which is the true method of farming, to obtain the best results; and the cost to me of doing the several kinds of work on my farm, as I calculate it, is honestly given in my report submitted to you. You say 50 cents per acre for plowing is very cheap. Well, I can do the plowing for that each year, and do it well, too. To illustrate: One man, four horses and a gang plow will plow well four acres per day. The wages and cost are: One man, 80 cents; board of man, 40 cents; three bushels oats for the four horses, 60 cents; hay for horses, 20 cents. Total cost, $2.00 or 50 cents per acre.

So with drilling: One four-horse drill will put in 20 acres per day; wages for man and board for man and horses as shown above, $2.00—which is 10 cents per acre.

So with cutting and binding: A man, three horses and machine will cut and bind 10 acres per day; wages for man (harvest) $1.75, board for man 40 cents, oats for three horses 45 cents, hay 10 cents, twine for 10 acres $2, expert service for 10 acres 30 cents; total $5, or 50 cents per acre.

So with threshing: A machine and crew will average 1,700 bushels of wheat per day. Expenses: Twenty-six men at $1.75 per day $45.50, one foreman $3, one thresher man $4, one engineer $4, one fireman $2.50, one elevator man $2, board for 31 men at 40

cents per day $12.40, oats for 36 horses $5.40, hay $1.80, oil $1, gasoline for elevator engine $1, cook's wages and wood $2.40; total $85 for 1,700 bushels, or 5 cents per bushel, or 75 cents per acre for a 15 bushel crop.

I thresh on my farm from 1,500 to 2,500 bushels per day, and I can easily put my wheat in the elevator at an average of 75 cents per acre for last year's crop.

40-6.

My crop of 1893 did not pay expenses, and I am $1,200 behind. I will leave 160 acres for summer-fallowing for 1894, and have bought a flock of sheep to herd and will plant more potatoes to feed the sheep.

CAVALIER COUNTY.

1-7.

My wheat sold at about 47 cents per bushel, and left a net profit of about 90 cents per acre. Perhaps the cutting is high at 75 cents per acre and 18 cents for twine, but it is the usual price here; and my figures at current prices would apparently prove that less than 16 bushels per acre would not pay expenses. My crop paid fairly well, as I had no hired labor except threshing.

13-7.

About 25 acres of my 96 acres was sown with wheat that had grown on sandy land, and it averaged 22 bushels per acre; the balance was sown with seed that had grown on black loam soil similar to my own, and averaged 18 bushels.

DICKEY COUNTY.

2-8.

I sowed 25 acres broadcast, which I did not harvest at all. Also, sowed flax broadcast, which did not amount to anything—all on account of the Russian thistle.

7-8.

I cannot stop without saying a word in regard to diversified farming that so many people and papers are harping on all over the country. In my 63 years of this life I have failed to find the first man that ever made much changing from one thing to another, or in trying to carry too many things on his back at once. Take a man raising cattle—if he sticks to his business the time will come when there will be a boom and he can sell and get his price; so with sheep; so it has been with wheat; the man that sticks to his business is the one that comes out oftenest.

15-8.

Cheese and hogs saved my neck this time.

16-8.

We use a press drill. Last year was a hard year; but we

earned $60 on the turnpike, sold over $50 worth of hogs, and raised our own meat; and expect to hang right on, and unless we die you will find us here and willing to oblige. I had a large crop in 1891, but could not get it threshed and lost much of it. In 1892 had about 10 bushels per acre, and in 1893 2.13 bushels.

17-8.

Broadcast seeding in moist years will give the best results by three to five bushels per acre; dry seasons the reverse.

20-8.

Broadcast seeding seems to do as well as drilling when put in early and the ground is in good condition; otherwise the drill gives better stand and better results. With our Russian thistles, the great object is to get a quick and uniform start. The header reduces expense in harvesting.

21-8.

My wheat for eight years has averaged 12½ bushels per acre on an average of 300 acres per year. In 1893 it went 7 bushels.

25-8.

The Russian thistles made extra labor and expense in plowing. My threshing was also much more expensive than usual, as I had a machine in a bad time, was delayed by storm and wind, and it was not a No. 1 machine either. It was the most expensive job I ever had done. It included feeding the thresher's stock, while they were here, whether threshing or waiting for it to dry off. I raise blue-stem wheat exclusively. While it costs no more to plow, drag, drill for seed and cutting, and slightly more for twine, shocking and threshing, for a good crop, the returns in 1893 were the smallest I ever had. Russian cactus reduced the yield as much as drought.

EDDY COUNTY.

7-9

I use both broadcast seeder and press drill; don't see much difference in quality of grain raised, but the drill produces the largest yield. I consider the velvet chaff better, both as regards yield and quality, than the Scotch fyfe.

10-9

This crop of 6 bushels per acre is the poorest I have raised since 1881. Twenty acres of my 110 acres I did not cut at all, and the 90 acres cut averaged about 7½ bushels. My wheat crop usually averages 20 bushels per acre.

13-9

My crop was very light, owing to very dry weather in July, but the quality of the grain was excellent.

16-9

I seeded part broadcast and part with a drill. Could not see any difference, except that the drill saved a peck of seed to the acre.

EMMONS COUNTY.

6-10

The fifty miles carrying to market was not hauled by team, but shipped by boat to Bismarck. The wind shelled out at least three bushels per acre for me.

8-10

I have given the facts as near as I can in my case, and can say that wheat raising in this part of the country is not a success, as I have been at it now for seven years. This year we ran behind, getting about 45 cents per bushel for our wheat.

13-10

It is very hard to answer all the questions and get them right.

15-10.

Lowest yield I ever had; hence, cost more per bushel to produce. Crop being light, it cost less per acre to thresh, but more per bushel than a heavier crop. Most years I farm some on the shares on other people's land, which does not yield as well as my own, on account of the continuous good cultivation of the latter. Part of the expense can be saved by plowing only once in two years, with as good results, if the plowing is done deep.

16-10.

Cost of production is largely a matter of opinion. It is difficult to measure human toil and sweat with base gold. I could hire the work done at the figures I have given, but it wouldn't be living wages for a man with a family, after deducting taxes, wear and allowing fair interest on the capital invested.

19-10.

Looks tough.

FOSTER COUNTY.

12-11

This is the first time I ever tried to figure what it would cost an acre to raise wheat, and I may be off the mark.

17-11

A good deal of my wheat land (80 acres) was summer fallow that averaged about fifteen bushels per acre, else my average would not have been as good as I have stated. The average for the neighborhood would not be more than six bushels per acre.

18-11

We are not in the wheat puddle. We intend to raise enough to

bread our family. Our attention is given to stock—mostly sheep which is going to ruin me and every other man engaged in the business.

GRAND FORKS COUNTY.

1-12.

I use blue-stem wheat for seed, which yields a little better. I got No. 1 hard for what I sold of it.

2-12.

These prices for work are what it would cost to hire it done: but we keep our horses seven months a year on hay and oats doing nothing, and we could not go out and do the work at these prices.

4-12.

The actual expense of raising 2,500 acres of wheat for the year 1893 was $6.36 per acre, not including rent.

21-12.

Farming at present prices is losing game in North Dakota.

26-12.

My figures do not show much profit for myself, but they are true. My oats and barley will help me out a little, for there is nothing in wheat now-a-days.

40-12.

It costs as much to raise twelve bushels as it does twenty-five; but I think that about five four-bushel crops would be a good thing; it would reduce the "visible," and that is the only thing that will bring back prices.

46-12.

Drilling is much preferred here to broadcasting.

57-12.

I have always used a seeder. Have tried drill, but do not see any difference in yield. The drill saves one-fourth bushel per acre seed, and drilled grain will germinate quicker and is not so apt to be blown out by the winds.

GRIGGS COUNTY.

7-13

You can see from this that we farmers are getting immensely wealthy.

12-13

Part of my wheat ground was new land and required more harrowing. New land or summer-fallowing that has had one crop on it can be burned off and raises as good a crop as though it were plowed.

24-13

In our section this year we had a fair yield of wheat and of good quality. I prefer the press drill, as I get the best yield, and no danger of wind blowing the seed out of the ground. No danger of weeds either if harrowed just ahead of drill.

KIDDER COUNTY.

1-14

I had 100 acres that yielded ten bushels per acre, while the other 160 acres yielded only one bushel—or most of it was not fit to cut.

2-14

I do considerable seeding on stubble, and plow only about half my land. Wheat does better on flax stubble than on ordinary plowing. By using a ten-foot drill, gang plow and fourteen-foot header one man can cover a good many acres in a season.

4-14

All my grain is sown with a drill. Spring plowing yielded three to one over summer fallow in 1893—something unknown before. My distance from market compels granary room for the entire crop, and the high charge for storage this year is because of the very low average yield. While I have a 12,000 bushel granary, I raised only something like 1,800 bushels of wheat this year, and the interest on the money invested in the granary makes a high rate for a crop of five and one-half bushels. I haul to market after the ground is frozen, when it can be done much cheaper than during the busy season.

7-14

The cost of production of wheat in our county in 1893 far exceeded the value of the crop. We harvested, threshed and marketed our wheat with our own help—no cash paid out except vere little in threshing. A change for the better will be necessary soon or wheat raising will be a thing of the past.

14-14

I ran a threshing machine last fall, and my own crop was an average of that raised in this part. I sowed some broadcast, but there was little difference. I received a better grade on that from broadcast seeding, but the yield was the same. Corn and oats were fair, and potatoes good. Stock is a good thing to have—especially sheep.

15-14

I sowed some broadcast, but shocked it altogether; but I know the yield of that drilled was much better. We must try and do more mixed farming or we will not succeed.

LA MOURE COUNTY.

2-15

Grain sown with drill invariably does the best, especially in dry seasons.

4-15

We paid $25 per month and $4 per day for man and team. which is at least 50 per cent. too much at present prices for grain. Such a reduction for labor would reduce the cost of wheat about $1 per acre. The drill saves half a bushel of seed per acre, and insures a better stand of grain.

6-15

I find the cost of cutting with a header a crop yielding from one to seven bushels per acre about 75 cents per acre; a crop of from seven to twelve bushels per acre, about $1 per acre; and a crop yielding from twelve to twenty-four bushels per acre, about $1.25 per acre. Drilling does the best by two to five bushels per acre, particularly in dry seasons. I work four good horses in a team, and do my plowing with a gang.

8-15

Land sowed broadcast yielded most, but the conditions were more favorable and the test was of no value.

9-15

Fifteen bushels per acre has been my average for twelve years except three years, which were nearly failures.

10-15

About one-half of a field sown broadcast produced about two bushels per acre, from one bushel and a peck of seed.

M'INTOSH COUNTY.

5-18

One bushel seeded with press drill is as good as a bushel and a half sown broadcast.

M'LEAN COUNTY.

2-19

Owing to the low price of wheat and the light crop, it did not pay expenses this year. Much wheat was injured by smut, and some of it rendered almost worthless. Part of my wheat was sown and harrowed in on land that had been cultivated to corn the year before, without plowing, which accounts for my plowing being so cheap, apparently. Corn, oats and potatoes were never more profitable than this year (1893).

5-19

Our threshing facilities here are poor compared with the Red River Valley. Our machines are as often as not old ones im-

ported from down there to end their days. Hence we are handicapped as regards the cost of threshing per bushel by the slow, easy-going old machines. I can quote a case where threshing from shock cost 40 cents per bushel the past year, caused by poor yield of only two and one-half bushels per acre, several break-downs of machine and rain. This is exceptional, but is to be looked at just the same as the more favored who claim to have threshed wheat for 5½ or 6 cents, which I do not believe. I do not believe there is to-day a farmer in McLean, Burleigh, Morton, Mercer, Emmons or Oliver County who threshed last year's crop either from shock or stock for less than 12½ cents per bushel.

MERCER COUNTY.

3-20

My wheat was struck by hail, and I had as much straw as a 20-bushel crop would give, which is the cause of my expensive stacking and threshing. I fed my wheat to hogs, and so had not the expense of hauling thirty miles to market.

MORTON COUNTY.

8-21

Part of my crop was raised on rented land, which is why my acreage in wheat is larger than the acreage of my farm.

28-21

My wheat was sown with what is called a fiddle, costing $2.00 and one man with it can sow 20 acres. I have tried drilling, and found it a vast improvement over broadcast seeding. The same result from deep plowing. I have kept a record for all crops for six years, and am convinced that wheat raising can not be made to pay at less than 75 cents per bushel. Only one crop in those six years has paid me, and that was in 1891.

NELSON COUNTY.

10-22

My experience is that drilled wheat produces more than broadcast, and does not require as much seed.

16-22

A farmer has to raise something else besides this wheat in order to feed and clothe the family for the whole year—and horse feed too.

20-22

Quite a difference in cost may be made from year to year; for example, our grain last season was in fine shape for cutting and threshing—very straight and free from weeds; and we went through eighty acres with the separator in a day, when forty or fifty acres would be a big day's work at other times. With us in this gopher country we can at times rent land for almost nothing.

21-22

In making up the various items of expense of plowing, drilling, cutting, harrowing, etc., I figure a man and team at $3.00 per day including board. This is less of course than they could be hired for. The cost of the crop of 1892 will not differ from that of 1893 to any extent; but for 1891 the expense per acre was much greater —on account of cost of seed and harvesting the heavy crop; but the net profit was more per acre.

OLIVER COUNTY.

2-23

I have had no experience in drilling grain, but I am impressed that drilling is preferable to broadcast, for then all the seed gets well covered, there is none uncovered for the birds to get, and so a peck to the acre less seed is generally used—and nearly always with the best results in both quantity and quality of grain raised.

3-23

When we can ship by boat to the railroad it costs but 7 cents per bushel. I hire all my cutting done at the regular price, 75 cents per acre; think it is as cheap as to keep a harvester.

PEMBINA COUNTY.

5-24

I use Havana press drill, which takes a half bushel less seed per acre and produces 10 per cent. more wheat, of as good if not better quality than broadcast.

12-24

I consider that the drill yields 20 per cent. more wheat than the broadcast seeder. I have used both in former years.

15-24

This will not help the poor farmer any.

20-24

Sixty cents per acre for cutting and binding is enough, as I have hired man with team and binder at $5.00 per day and cut sixteen acres. I have been very fortunate growing wheat. I always prepare my land ready for the drill in the fall. Have farmed here for thirteen years and never had frosted wheat, and never had less than twenty bushels per acre except in 1888, when I had seventeen bushels. I always use the Havana press drill.

30-24

Farmers can not live in North Dakota at less than 60 or 65 cents per bushel for their wheat at the lowest.

31-24

Nothing figured in for dead horse or taxes. Thin seeding

largest berry; thick seeding, earliest cut; summer-fallow to get rid of smut, and don't sow any deeper than necessary to get sufficient moisture to start it to growing well. If seed has smut in it, don't sow; if it has ever been wet, broadcast it, and if the ground is right it will ripen sooner if there is no frost in the spring to kill the young plants.

32-24

I had considerable of my work done this last year by the acre at the figures I give, and I find it is cheaper than hiring men by the month or day, if the work can be satisfactorily done. My past experience has been that the drill is much safer, and I think will give four or five bushels more per acre generally.

34-24

My wheat was struck by hail, to some extent, so that the average yield is smaller than it would have been.

38-24

The regular prices paid for man and team is $3.00 per day in the spring, and $4.00 per day in the fall. For men, alone, in the fall, $2.00, though I know of men that received $2.50 per day last fall, and men and teams that received $4.50.

41-24

I had three men for fifteen and a half days—all the rest of my men were employed by the month. I know to a cent what I have paid out for the year's crop, which is: Labor, $1,008.22; seed (wheat), $630; twine, $140; threshing, $540; total, $2,318.22, which is increased by the $2.25 per acre rent. The cash outlay on the 700 acres of wheat is therefore $3.38 per acre, and the rent brings up the cost to $5.67 per acre. I raised 300 acres of oats, barley, etc. The oats, barley, 500 bushels of potatoes, 100 tons of hay, road work which I did, breaking and back-setting eighty acres, and the $2.25 per acre I have charged for rent pay for board, depreciation of teams and machinery. I have a blacksmithing and repair shop on the farm.

42-24

Farmers have figured on this question for years, and the conclusion drawn is that it will cost on an average $5.00 per acre to raise wheat, not counting rent.

43-24

I have used a drill six years, and find it pays.

45-24.

The figures I gave are such as the work can be hired done for but we farmers get work for only seven months in the year, and cannot work to make anything at such figures at present prices,

As to rent, $2.00 per acre would be good rent. The land is leased on crop payments—some at one-third of the crop for the bare land without so much as a 10x12 stable, and the renter [owner?] has the cheek to ask you to haul his share to market. Other owners furnish the seed, pay half the threshing bill, and take half the crop, the renter leaving the land as he found it; and some will tell you there is no money in it at that. There is not thirty per cent. in it, and if they do not make that, there is no money in it. I can't be one, or part of one, that can raise forty-cent wheat.

48-24.

Fifty cents per bushel does not pay here—too far from market.

PIERCE COUNTY.

1-25

My wheat was on new land and the straw was very heavy, which made the stacking expensive. A hot wind struck it before ripe, and then a hard wind shelled out about half of it. I had straw enough for thirty bushels per acre, but only got ten.

RAMSEY COUNTY.

3-26

My threshing from the stack cost me 12½ cents per bushel. No threshers around here furnished an entire crew this last year, and I paid my help $2 per day and boarded them. It is cheaper to the farmer when the threshers furnish their own crew.

5-26

The figures I give are such as I would have to pay were I to hire the work done. Of course I do my own work, and therefore earn fair wages raising my own crop.

6-26

My summer fallowed land went twenty-five bushels per acre; fall plowing, thirteen bushels; new breaking, eighteen bushels.

12-26

Threshing in 1893 was much cheaper than usual. The machine charge was 3 cents per bushel, while it is generally 4 cents; teams cost $3 per day, while other years they have cost $4; laborers received $1.50 per day, while generally the price is $2. Five cents per bushel for hauling fifteen miles is rather low, but I can hire teams to haul it for that.

13-26

Wheat did not pay this season. We have to pay too high for help. I paid $25 per month for eight months, and $1.50 per day for extra help. I have put the cost of the work down as low as it can be done for.

15-26

I have my crop of 1892 on hand yet, and if I had stored it in elevators I should have been out 12 or 15 cents per bushel.

16-26

We are getting rich raising wheat.

17-26

You will see by this that if we hire, we don't have anything left at the present prices. It would run us behind. If this is democratic times we don't want any more of it.

18-26

I sowed a few acres with a press drill at the rate of a bushel and a half per acre, and the rest one and one-quarter bushels, the land for the former averaging a little better than the latter. The wheat sowed at a bushel and a half per acre averaged twenty-two bushels per acre, while my whole crop averaged but sixteen.

RANSOM COUNTY.

5-27

I had 700 acres of flax, which yielded nine bushels per acre, and cost $3.50 per acre; 250 acres oats that yielded twenty-five bushels per acre, and cost $4.50 per acre; and 150 acres of barley that yielded thirteen bushels per acre, and cost $4.54 per acre.

9-27

I think our living expenses for the balance of the year and keeping of teams should be included in the expense.

15-27

I always sow (broadcast) a bushel and a half per acre, which gives me best results. Cutting costs as much for a heavy crop as for a light one—with the exception of the twine. We can get our stacked grain threshed at six cents per bushel.

17-27

In ordinary years threshing has been done as low as six cents per bushel; the farmer having to take the grain from the machine, and if he wanted any straw he had to take care of it. But no one would thresh at such a rate in 1893.

18-27

In addition to the above, expense should be charged prayers, penances, curses, wear and tear on conscience, gopher poison (not of the jug kind), etc, $100,000. We have our plowing done and will hit her again. Don't think the income tax will hurt us much.

21-27

My experience is that seeding with the drill gives better results than broadcast.

23-27

This does not include cost of wear of machinery, keep of teams through balance of year, or of taxes.

30-27

Lost $2.50 per acre in 1893.

31-27

Wear on machinery and feed for horses are important items; as a binder will cut about 150 acres per year for ten years, and seeders, drills and plows will do the same.

I am willing to rent my land at $1 per acre, and pay the taxes and interest myself; but parties wishing to rent will not pay that, as they cannot obtain seed. I would rent all my land at that price if I could get it. This land is located on the Sheyenne river.

I own 480 acres of land, 350 of it broken—one quarter-section being seven miles from home—which I rent, and farm the 200 acres at home myself. I have paid right along 10 cents per bushel to have this grain threshed from the stack and put in sacks and I take care of it from the machine—or 12½ cents per bushel for threshing from the shock. I stack my own grain, and so save the extra expense of threshing from the shock. The crop of 1891 cost me 14 cents per bushel for threshing from the shock, as I made a careful, itemized account of the expenses incident to threshing, and without resorting to technicalities, such as firewood, etc.; and the expense was the same for each of my neighbors. The same machines that charge us 10 cents per bushel for threshing from the stack thresh cheaper in the Red River valley, but we cannot help that. I keep a tabulated statement for expense, and have helped my neighbors to do the same.

We cannot get our cutting done at less than $1 per acre. It is as much trouble to run a machine over a light crop as over a heavy one.

I have hired a good deal of plowing done at $1 per acre, and have plowed for others at the same price, furnishing and boarding myself and team.

Between December 20th and the following January 1st, I take an inventory of all stock and farm machinery. On machinery I give first cost if bought during the year and paid for. I have three quarters of land which I number 1, 2 and 3. All agricultural work done on each is charged to that farm, including building of fences, etc. I then credit that farm at a conservative price for all cereals produced, not counting the cost of marketing. On stock, we hardly make anything, though I charge them to stock account, and credit the sales and what are consumed on the farm at their market value. Household expenses and incidentals are added to the expenses.

During the threshing season I keep a time-sheet of the men's wages, and add the groceries and other expenses, including machine bill, and divide by the total bushels threshed—wheat, rye, barley and oats. I find breakages and unlooked for expenses hard to keep account of. Almost any man can keep a simple little book account, and tell approximately where he stands. I will have to admit that my farm is not paying, though I find my income from small resources larger than I would guess it to be, while expenses very largely exceed any idea formed from a casual estimate.

Any simple form of single entry book-keeping will answer. These forms can be found in all text-books on the subject. On a farm I should consider all out-standing accounts that might be considered as bills receivable worth only 50 cents on the dollar. I learn this by experience.

For 40 cents I get an indexed day-book, four leaves to each letter. This will last a year, and is but very little trouble.

I presume that you can find from those that make a success of farming better statements than any that I can give you, but the plan outlined is the one I follow.

Here is an expense I wish you to take note of: I have farmed twelve years and lost but one horse. In sending in these statements, it does not allow for a few items which must come under loss account. Here is one from a careful farmer, in eight years farming:

Four horses died, worth $150 each	$	600·00
One wagon burned		40 00
One steer struck by lightning		35 00
One steer killed by accident (one of a $90 yoke)		45 00
Two cows died		50 00
Runaway breakage on binder		26 60
Three doctor's bills, of $15, $15 and $10 respectively		40 00
Medicine		2 30
Loss of three weeks in harvest through sickness, and man to take his place, at $2 per day		36 00
Total for eight years	$	874 90
Average per year		109 36

These expenses, or an average, should be distributed to each householder. Farmers do not believe this until you hold them down to their losses for a period of years.

RICHLAND COUNTY.

3-28

I threshed on the 29th and 30th of October last fall, in short days, paid $1.50 per day for help, 3 cents per bushel for threshing, and fed all the help. I produce only hard wheat—Saskatchewan fife.

I make the cost of hauling to market, three miles, 3½ cents per

bushel, and do not think one would acquire a fortune at that price. I have to get up early if I wish to make two trips a day and sack the grain—fifty bushels per load, and have to have help sacking. Often teams loaded with wheat have to wait at the elevator for hours for a chance to unload. I could not hire this hauling done for less than 5 cents per bushel.

I am sorry I cannot produce wheat at less cost. I do most of the work, with the aid of my half-grown sons, and dare-say am doing well compared with neighboring farmers; but it costs me the amounts I have given, and if I worked out I would earn that much—perhaps more.

I know that three-fourths of our farmers do not know how much their wheat does cost them, and they estimate everything. I keep account of every cent paid out or received during the year, and can furnish figures for every month from 1881 to 1893. It perhaps does cost me more to produce an acre or a bushel of wheat than it does others, but this lies in the mode of farming.

I figure the expenses of the work as follows:

A man with four horses and a sixteen-shoe Superior drill will put in twelve acres per day, and the cost is:

Four horses, at 75c. each per day	$ 3 00
Three bushels oats, at 35c	1 05
Timothy hay	50
Man operating drill	1 00
Board of man	50
Use of drill for one day	1 40
Wear on horses and harness	1 00
Cost of drilling twelve acres	$ 8 45

which is a trifle over 70 cents per acre.

For cutting and binding: One man, machine and three horses will cut and bind ten acres per day.

Three horses	$ 2 25
Two and one-fourth bushels oats	79
Timothy hay	38
Wear on horses	75
Wear on harness and repairs	50
Man operating binder	1 50
Board for man	50
Use of binder for one day	3 20
Twine, 1½ pounds per day, at 12c. per pound	1 80
Oil	15
Cost of cutting and binding ten acres	$ 11 82

or $1.18 per acre.

For stacking, the cost is as follows: Four men, four horses and two wagons will stack 12 acres per day, hauling the grain from half-mile to mile and a quarter.

Four horses	$ 3 00

Three bushels oats	1 05
Timothy hay	50
Wear on harness and horses and repairs for one day	85
One man (stacker) one day	2 00
Three men, at $1.50 per day	4 50
Board for four men, at 50c. per day	2 00
Cost of stacking twelve acres	$ 13 90

or about $1.16 per acre (I have given it at $1.15).

So, for threshing: It took a day and a half to thresh my 73 acres of wheat, from which I obtained 882 bushels.

Machine bill, 882 bushels, at 3c	$ 26 46
Furnishing straw for engine	1 50
Eleven men a day and a half, at $1.50 per day	24 75
One man	2 00
One man	75
Boarding nineteen men	17 10
Four horses, one and a half days, at 75c	4 50
Oats and hay, wear and use of two wagons, horses and harness	3 60
Two men hauling grain to granary, one and a half days	4 50
Two men, extra help in granary, one and a half days	4 50
Boarding four men, five meals, at 20c. per meal	4 00
Two women helping in house cooking, one and a half days	3 00
Board of two women, one and a half days, at 50c. per day	1 50
Oats for threshers' teams, one and a half days	1 85
Hay for same	75
Cost of threshing 73 acres, or 882 bushels	$100 76

or $1.38 per acre, or 11.4 cents per bushel from the stack.

If the ground is new breaking, the cost of the plowing, or breaking, is $3 per acre instead of $1.25. Grain put in with a press drill germinates quicker, stools better, has a more vigorous growth, matures earlier and yields 20 per cent. better than broadcast. This is the experience of many that use both broadcast and drill.

6-28

I have tried to arrive at as near as possible the actual cost. The past year is, of course, not a fair average year from which to compute profits.

10-28

Though I have an elevator within two and a half miles, I find it pays to haul a part of my wheat to another elevator seven and a half miles away, where there is an independent buyer who gives me two or three cents a bushel more. Though I give my distance from market at two and a half miles, I have charged for hauling part of my wheat seven and a half miles. Otherwise my charge for marketing would be high.

16-28

You see that wheat alone will bring me in debt this year, and

it has been about an even thing since I have been here—thirteen years. If I had depended on wheat alone I would be where the boy had the frog—in hades long ago.

21-28

I have raised wheat for twelve years, and find but little difference in the cost from year to year. When we get a light crop we generally get more weeds. In '91 we had the heaviest crop, which cost $9 per acre on account of the heavy straw. Last spring I used a drill and broadcast seeder side by side on land that was not dragged, each sowing at the rate of a bushel and a half per acre, the field being dragged crosswise after the seeding was finished. One week later the drilled grain was all up, but not a spear could be seen of the broadcast, and the field looked a great deal like the American flag with the stars taken off. The broadcast never caught up with the other, the weeds got the start, and it was six inches shorter at harvest and yielded about one-third less per acre.

22-28

The yield is about the same with drill or broadcast, but the drill saves 33 cents per acre in seed.

23-28

The cost of marketing is included in threshing. I have no way of ascertaining the exact cost of the different items, as I do my own work on my land, including repairs, threshing, etc. I divide the whole cost as I think proportionately. I have no model farm, as Bill Nye has, but try to farm for profit. After several years' test I find the drill superior to broadcast seeding, and besides, it saves a peck of seed per acre.

You say 45 cents for plowing and 15 cents for drilling seems low. I hire for 77 cents per day, and a man, four horses and gang plow will plow five acres per day—wages, 77 cents; use of four horses one day, $1; board of man and horses one day, 48 cents—total, $2.25 for five acres, or 45 cents per acre. I use cheap horses and cheap, durable harness; and when one of my horses earns 25 cents each day besides his keep for eight months he is more than paying his way.

The same man and team will drill twenty-five acres per day, which at 15 cents per acre will amount to $3.75 per day. You can hire it done for this, and the man doing it will feel that he has struck it rich.

No, you can't hire this way:

Plowing, per acre	$ 2 00
Harrowing	50
Seed	62½
Drilling	1 00
Cutting	2 00

Stacking	1 00
Threshing	2 00
Total per acre, not counting rent	$ 9 12½

That is the way we used to figure when we worked for tenderfeet; but we are down to business now. You can't wear diamonds and drink grog and make farming pay by hiring. In 1892 my wheat cost me 29 cents per bushel, and oats 14 cents—not elegant crops either. I expect to reduce the cost this year. Why, man, we can raise wheat cheaper here than anywhere in the world. We can stop India, or the South American countries, or even Russia. They can't compete with us. All we want now is *free coinage of silver* and pluck, and we will be the granary of the earth. Come down, old Williams, and I will show you my farm and give you pointers too—good grub, good water, and good help is our motto.

28-28

I have used both drill and broadcast seeder. There is very little, if any, difference in the result—except that the drill saves half bushel of seed per acre.

29-28

This year the crop was short. If it had been fifteen bushels per acre, as crops generally have been heretofore, and prices better, there would have been some profit. As it is, there is a loss. I have seeded with drill and broadcast seeder, and the result was the same.

ROLETTE COUNTY.

4-29

Drills are 50 per cent. ahead of broadcast seeders. We haul our grain to market after the ground is frozen and there is little else to do. I have hauled myself the twenty miles for 7 cents per bushel, and hired it done at the same price. I cannot get an acre plowed in a workmanlike manner at less than $2 per acre. Threshing is our greatest expense, as men and teams are very scarce, and consequently very high—$4 per day for man and team, and $2 for single man—and board and bed besides.

8-29

I hired a good deal of my grain cut, and paid fifty cents per acre and furnished the twine, which cost me sixteen cents per acre. My threshing cost me eight cents per bushel. I ran a machine of my own, furnished my own crew and threshed for eight cents per bushel, and did very well at it. Wages were lower in 1893 than the year before, I paying $1.50 per day the past season. In 1891 my average yield was 28½ bushels per acre, and in 1892 21 bushels, in 1893, 15 bushels.

10-29.

Threshing and labor cost us more in this locality than in some other parts of the State, on account of our being so far from railroad. Not much help comes out so far. All the land that is rented here is by parties that have foreclosed mortgages, and they rent it for $1.00 per acre. I use both seeder and drill, and think the latter the best, on account of our high winds not blowing out the drilled grain; but otherwise I think the seeder would yield as well.

12-29

If the average farmer would put the same amount of labor on half his land it would reduce the cost.

13-29

I sold a part early in the winter at 50 cents per bushel; kept the rest till later and sold at 45 cents.

15-29

I cannot raise wheat at léss than 50 cents per bushel and hire it done. At present prices I have to throw in my own labor at less than my hired help.

17-29

Some other years I have had a net profit as high as $8 per acre.

20-29

A net profit of 96 cents per acre—rather small—and the yield was above the average, being nearly all summer-fallow. Easy to sustain a loss with these figures if the one item of yield should fall below the one given—18 bushels.

SARGENT COUNTY.

2-30

This has been a year when farmers have not held their own on wheat. I raised enough flax to pay my expenses, and am going to diversify more in 1894. Our threshing cost us about 12 cents per bushel from the shock. The m chine charge was six cents per bushel, the farmers furnishing the bundle teams and drivers and taking care of the grain from the machine, and then board the crew and teams. The heavy growth of straw and poor yield made it expensive.

3-30

I used drill and seeder side by side, and at harvest time could not see any difference in the crop. I also used both binders and headers. but don't like the header except in cases of emergency. I have kept a strict book account for the last three years—showing profits for 1891 and 1892 (extra large profit for 1891) and a

loss for 1893. Land is rented here every year at $1 per acre, the owners paying all taxes and interest.

5-30

While I own the land, teams, machinery, etc., I have figured very low for their use. I used a seeder some, with about the same result as with the drill, but it required half a peck more seed per acre. This ascertaining the cost of raising wheat is a grand idea, and I hope we may profit by it. The cost is more than the receipts this year.

7-30

My crop of 12 bushels was one of the best crops in this county last year.

10-30

I shipped most of my wheat to Duluth and netted 47 cents per bushel on it, and was docked one and one-half pounds. At the home market the dockage was five pounds, and besides, I lost about three bushels per load of 50 bushels. On a car of about 600 bushels shipped, I gained 35 bushels in weight.

12-30

I have given the prices usually given, but I believe a crop could be actually raised and taken care of for $6 per acre, because labor is cheaper now than it was last spring.

13-30

Of my 440 acres of wheat, 140 was destroyed by hail and was plowed immediately.

15-30

This is figuring very closely. With a heavier crop the cost of harvesting and threshing would be more.

19-30

I seeded about 60 acres broadcast. The average per acre was about three bushels in favor of the drill.

25-30

My figures are based on living wages for work done. Still the general result is misleading, as it shows an apparent loss for the year; while by raising our own living and working all side issues, we have more than made both ends meet, even in this exceptionally tough year.

27-30

Of my 85 acres, only 65 were harvested—20 acres not being worth harvesting.

29-30

I am positive that if our land was rolled immediately after plowing, all crops would be much better; for all grain looks better at the ends where the turning round is done and the ground is tramped and packed.

30-30

I use both drills and seeders, and both binders and headers, and there is not much difference in the results. For 10 years my wheat crops have averaged 13 bushels per acre.

STARK COUNTY.

7-31

Drilled grain will yield three to five bushels per acre more than broadcast. A man here had 26 bushels of wheat and 31 bushels of oats, and it cost him $16.25 to thresh it. For all jobs under 160 bushels, they charge $8 to set the machine. This man, in addition to the $8, paid nine men 50 cents each, gave 12 men one meal, paid 75 cents for coal for the engine, and then hauled his wheat to town and sold it for 40 cents per bushel. I have farmed for 45 years—10 years in this State—and I haven't seen any good farming here yet.

Wheat sown broadcast is not so good, not worth so much in the market, as drilled. It does not get covered evenly, does not come up evenly, nor ripen at the same time; it always contains more or less shriveled grain. The seeders that drop the grain on top of the ground and sowing by hand are about the same thing.

12-31

Our threshing was high, as it was too small a job for a machine to come and thresh at the regular rate—as are many other jobs in this county. It cost $8 for the machine, and then paying and boarding all the help brought up the cost to over 11 cents per bushel. All our other crops, except wheat, were total failures, and that almost one. This was the poorest crop I ever raised. For eight successive years my average of wheat has been 14⅓ bushels per acre.

16-31

This land was all plowed this year, which makes the expense greater than usual. I get better crops by using a disc harrow, and plowing the land only once in three years. This makes the average expense about 50 cents per acre less than I have given it, or about $3.90 per acre.

STEELE COUNTY.

3-32

I insure only a part of my crop, and the average cost per acre

for the whole crop is about 10 cents. My average yield for all years is about 15 bushels, and the average cost per bushel, one year with another is 40 cents; average cost for 1893, 44.6 cents.

4-32

I seeded part of my crop with a drill and it was all threshed together. I did not notice any difference in yield or quality, but the drill saves one-eighth bushel seed per acre.

5-32

These prices given are what it would cost to hire the work done, but allow nothing for overseeing the labor, nor for cutting hay and caring for stock for eight months winter, and living on faith or going hungry and naked. I have no data for any other years. It makes me tired to look over the past; and I burned the past and would like to burn this.

10-32

Early sown wheat the best—less smut and better weight.

13-32

I insured only part of my crop against hail, at a cost of 25 cents per acre ; the total cost of this insurance makes 15 cents per acre for my entire wheat crop. My plowing and preparing for seed was considerably higher than usual, for the reason that it was nearly all broken the preceding year, and required more labor to pulverize it. The cost I have given is correct.

26-32

Have sown broadcast some years, but get much the best results from drilling. Have used half bushel more seed in broadcasting, with much poorer results.

27-32

If I give you the cost per acre to hire the work done, it will make a big difference, for I know that I can do my work cheaper than I can hire it done. I am no kid-glove farmer, but go into the field and drive one of my own teams, and by doing so I find I get more done than when I send my teams to work and go to town myself. If you want the cost to hire everything done, you may raise my figures about 30 per cent, but I suppose you want the facts as near as a farmer can get at them. I haul my wheat to market after the ground freezes, at a cost of 3½ cents per bushel for ten miles. If I hauled during the busy season, it could not be done for less than 5 cents per bushel. If you are going to print and distribute these reports, you would better destroy mine, for I think it is wrong to tell everybody just what it costs to raise wheat; and one man cannot possibly raise it for what it costs another.

32-32

This estimate is based on the actual wages paid by the farmers here for the different portions of the work.

34-32

I can do my work cheaper than I can hire it done—even if I could hire it done at all, which I cannot here. With diversified farming, one can raise wheat at 50 cents; but as an industry by itself it is a slow way to become a millionaire. I would like to see your results.

35-32

Among "other expenses," should be included keeping of teams during the year when not at work, wages for men kept during the same time, taxes, insurance, cost of raising oats, hay, etc., repairs and incidentals, none of which I have given. The result allows nothing for land for pasture or being summer-fallowed, nor for interest on investment in stock, buildings, tools, etc.

The whole cost of running the farm over and above the items priced should be ascertained, divided by the acreage in wheat and added to the amount I have given; first, however, deducting the value of all other products of the farm outside of wheat. The result obtained would be about right.

I have at different times received printed blanks asking answers to questions for the purpose of getting data for of arriving at the cost of growing a bushel of wheat, among them the one that I return to you filled out as requested. No such blank that I have ever seen has seemed to me to meet the requirements of the case. It will not do to say that the cost is ascertained when the cost of plowing, seeding, harvesting, threshing, etc., has been added up. Farming is an all-the-year business. The cost of raising the main article produced on a farm is the total expense of running the farm, less such amount of money as may be received from the sale of other products of the farm.

I send you a statement which I think shows the real cost of raising wheat with a 12-bushel yield, at the prevailing wages in 1893. Our farmers must reduce their expenses or they will lose all they have. Wages take all the profits. I have furnished one of the papers the same statement, which is as follows:

COST OF RAISING A BUSHEL OF WHEAT WITH A 12-BUSHEL CROP.

Wages, 3 men and 1 woman, 8 months	$	672 00
One man and wife (winter) four months, boarding themselves		100 00
One extra man, haying		30 00
Three extra men, harvest and shocking		72 00
Board of above (except second item) at 33¼ cents per day		342 00
Total cost of help and board at wages of 1893	$	1,316 00
Seed wheat, 562½ bushels cleaned, at 55 cents	$	309 38

One hundred and twenty-five bushels seed oats, at 30 cents	$	37 50
Hail insurance, 500 acres at 22 cents per acre		110 00
Fire insurance, say		20 00
Taxes, say		200 00
Fuel, say		100 00
Repairs, blacksmithing, etc		75 00
Threshing 450 acres wheat, 12 bushels per acre, at 10 cents		540 00
Threshing 50 acres oats, 2,000 bushels, at 7 cents		140 00
Twine for 500 acres		1,611 88
Total cost of raising the crop	$	2,827 88
Deduct amount received for hogs, butter, etc		200 00
Net cost of crop	$	2,627 88

Deduct from the total 5,400 bushels of wheat, 200 bushels for dockage, shrinkage, etc., and we have 5,200 bushels, which cost $2,627.88; divide, and we have the cost to be 50.536 cents per bushel. To this amount, add for wear and tear and shrinkage on buildings, tools, stock, etc., 5.464 cents per bushel, and we have total cost per bushel to be 56 cents.

Add interest on investment, say, 10 per cent on $10,000, and where are you?

The hauling to market is supposed to be done by the three men during the time paid for.

36-32

Broadcast seeding is not as reliable as drilling, and is more expensive. It requires half a bushel more seed and more labor. It is necessary to have your seed placed in the ground at an even depth, which you cannot do when broadcasted.

51-32

I have heard of no land rented here for cash. The usual plan is one-fourth of the crop for the use of the land. One-fourth of an average crop—fifteen bushels—at 50 cents per bushel, will make about $1.87 per acre for rent.

53-32

This—$5.65 per acre besides the rent—is what it costs me to raise an acre of wheat. Some of my neighbors raise it cheaper, and it costs some of them a good deal more. I think $5.75, not counting rent, would be an average for this vicinity. In this locality the average yield for 1893 was twelve bushels; for 1892, eighteen bushels; for 1891, thirty bushels. The prices were 48 cents, 54 cents and 73 cents respectively. There is little difference between drilling and broadcast seeding—except that by the former you save a peck of seed per acre.

STUTSMAN COUNTY.

8-33

The yield was but little if any better where the press drill was

used. At present prices we are producing wheat at a loss of 38 cents per bushel. We are also getting nothing for interest, taxes or insurance. Our crop in 1892 cost us a little over 50 cents per bushel.

12-33

If rent is charged, it would be interest on money invested per acre; but we who live on farms should credit them with rent, and the one rent must offset the other.

TOWNER COUNTY.

1-34

The figures I give are an average for the last nine years, except for 1891.

2-34

This was the first year I have used the drill, and I find that with a peck less seed to the acre you can raise as much and harvest it eight days earlier than with the broadcast seeder. But I shall experiment with both in 1894.

5-34

Breaking and back-setting new land will add $2 per acre to the figures I have given.

TRAILL COUNTY.

2-35

I have added $1 per acre for keeping teams during the part of the year they are not at work, and for interest on stock, machinery and buildings. In the same $1 per acre is included the cost of raising 120 acres of oats and putting up 200 tons of hay—which I must have in order to raise the wheat, and of course the wheat crop must pay for them. The prices I have given are bottom prices, but I could have hired the work done last fall for the amounts charged. I cannot distribute the last $1 per acre among the other items of expense, for then I would have them charged up at more than I could have hired the work done for.

I figure my threshing at 7½ cents per bushel from the shock. Itemized, it is as follows, the wages including a charge of 50 cents per day for board of a man, and 75 cents per day for board of a team :

Eight bundle teams, at $4.75 per day	$	38 00
One tank team		4 75
One straw team		5 00
Five pitchers, at $2.25 per day		11 25
One feeder		4 50
One feeder		3 50
One feeder		3 00
One engineer		4 50

One fireman	$	2 75
Two band-cutters, at $2.25 per day		4 50
Two wagon men, at $2.25 per day		4 50
Total cost per day for help	$	86 25

I averaged to thresh 1,500 bushels per day—a little better than 1,500—but call it 1,500. This at 7½ cents will make $112.50. Deducting the $86.25, and we have left $26.25 per day for oil, breakages, interest, Sunday board, etc. If the weather had been rainy, the cost would have been more, but last fall we lost no time, and I did not have to board the men or teams except when at work.

6-35

I have been quite accurate in filling this blank. With the light yield the past year, we are just about keeping even, without getting anything for rent. The cost for 1892 was 30 or 35 cents more per acre—say $7.50 per acre, and the yield was 15 bushels.

16-35

There was no material difference between broadcast seeding and drilling in 1893, nor was there in 1892, except a saving in amount of seed by the drill.

30-35

By drilling I get about two bushels more per acre, and a better quality of wheat, too.

35-35

I cannot figure down the expense of raising an acre of wheat to less than $6 per acre, with rent to be added to that. It seems awful high, but such is the fact. Labor has commanded too high wages—that is, it has not produced an equivalent to what it has been getting, at the present prices of the products.

There has been no land rented for cash around here. Land is held at $25 to $30 per acre, and $3 for rent would be only 10 per cent. on the valuation, including taxes.

I have used nothing but press-chain drills for the last three years, and prefer it to the broadcast seeder for several reasons.

With me the cost per acre for a number of years has not varied much from year to year.

I think this undertaking of yours a good idea. Should be pleased to get the results when you get them all compiled.

38-35

I usually either fallow or else raise other crops partly to improve the land for wheat; and also haul the manure and spread it on the land. I merely estimate this extra expense at 45 cents per acre, without having any way of being exact.

Cultivating the land after sowing until the wheat is several inches high is very beneficial.

WALSH COUNTY.

1-36

I loaded my wheat on a boat from the machine—my farm being on the Red River, and so do not charge anything for marketing.

I have always held that this plan of calculating by the acre is the only way in which we can get at the true cost of raising wheat, for the reason that it costs virtually as much to put in the granary an acre of wheat that averages 10 bushels as it does to secure an 18-bushel crop. The cost of raising wheat per acre varies but very little from year to year. Some years the cost of harvest and threshing help is a little more than others, and also at seeding time; the cost of seed varies some.

4-36

We had a light crop last year, and wheat higher at seeding time than at harvest. We thresh from the shock, paying 10 cents per bushel, the threshers boarding themselves. On the same land in 1892 we had 16 bushels per acre, and in 1891 about 28 bushels. (In 1893, 10 bushels.)

5-36

I sowed both with drill and broadcast. No difference in yield.

16-36

To do good plowing is worth $1.50 per acre. Skim plowing don't pay.

19-36

The last two crops have been poor, on account of the high water in the spring.

22-36

It is difficult for the ordinary farmer to make a correct estimate of the actual cost, as he has to take into consideration the value of horses, machinery and implements, cost of fodder, wear and tear, length of time they last, what length of time they are in use each year, etc., and make his estimates to cover all.

23-36

Threshing from the stack costs 5 cents per bushel. My wheat was fyfe; light crop, on account of too much water.

26-36

This is about the cost every year, except that threshing varies with the amount of grain raised per acre.

30-36

Our land overflowed in the spring, and in consequence the cost of seed, seeding and harvesting, was above the average. We could not get our threshing done in time at 10 cents per bushel—had to pay more. Our roads have been very bad since 1891, and it costs me 5 cents per bushel to haul my wheat six miles. In my case, if my wheat is sold now, though a 16-bushel crop, the proceeds will not come within 10 per cent. of paying the cost of raising it.

WELLS COUNTY.

8-38

Shock threshing in this locality usually costs 12 cents per bushel—never less than 11 cents. Then two teams are required, and three men, to get the grain from the machine to the granary—a cost of about $10 per day, or about 1 cent per bushel—making the lowest total cost of threshing 12 cents. I believe the cost could be reduced by using drills and stacking the grain.

12-38

In this vicinity we were hailed out. We had insured in the Grand Forks M. P. A., of Grand Forks, but the company failed to pay up its losses; so we are in a bad fix—no seed, no feed, and no money for the coming year.

13-38

Threshing from the shock can be hired done at 10 cents per bushel, but last year my threshing cost me 14 or 15 cents.

REMARKS ON CROP OF 1892.

13-4

On account of the big crop of 1891, plowing was behind this year, and about 60 acres of my 200 acres was stubbled in, and the cost of plowing what I did plow is divided by the total acreage in wheat, which makes the cost of plowing apparently low. Threshing cost more than 10 cents per bushel from the stack this year, and my cost from the shock was 13 cents.

10-9

About 30 acres of the 110 acres was seeded on stubble broadcast, and averaged 15 bushels per acre. The balance was on fall and spring plowing, and brought the average of the entire crop up to 17 bushels.

4-10

I did not haul my wheat to market, and so make no charge for that item. I used it all on the farm—fed it or turned it into flour, and sold the flour. What was sold in this way netted me 79 cents per bushel; cost to raise it, 61 cents per bushel.

15-10

Threshing from the shock is a saving when wheat is cut with a binder. We now use a header, which is much the cheapest way.

17-10

I did not plow any of my ground this year, but burned the stubble and harrowed it, and then drilled in the wheat. So I have placed the cost of preparing the ground for seed at 25 cents per acre.

21-13

A small part of my wheat ground this year was not plowed at all, but the stubble was burned clean. With a heavy stubble this can be done, and one can generally get a good clearing of the land by fire, which would reduce the cost about 50 cents per acre. The yield in such cases is generally as good, if not better, than fall or spring plowing.

4-14

Summer-fallow in 1892 yielded two to one over spring plowing. The yield would have been better had it not been for the wet, warm weather immediately after harvest before the stacks got settled.

2-15

I have delayed filling out this blank in order to get the opinions of my brother farmers on this question, but I find that every man has an opinion different from all others, and they vary so widely that they are of very little practical use.

This work is a good one; but I am satisfied that the average estimates will be much too low, for the figures given will be merely wages for about two months in spring and three or four in fall—just as if the labor was hired outright, which is not right. For the farmer who does his own work, as I and many others do, practically loses about half his time. The crop we raise is generally about all we get for the entire year's work, and as matters are now, it is mighty little.

My figures for rent may seem low; as I rent no land it is only

guess-work. But since the Russian thistles have come, there is lots of land offered rent-free to those who will crop it in such a way as to prevent the thistles going to seed. And from present indications this entire county will not in a few years rent for enough to pay the taxes.

Count on me in any good work which will benefit North Dakota.

3-28

Stacking and threshing seem high, but wages were high in 1892—$2 per day and board. As the straw was heavy and thick on the ground, it required more labor at the high rates; and besides, I haul my grain from half to three-quarters of a mile to stack-yard, incurring more labor and expense. I stack my straw for winter feed and bedding, and also for the manure. I generally thresh after plowing and other work is done, which compels me to pay high wages for short days. These things combined, increase my cost of production to considerably above that of others who burn their straw. I also prepare my seed with great care, using only the largest kernels, which increases its cost to considerably more than the market value of wheat.

24-28

A drill requires a peck less seed per acre, and produces three bushels more per acre.

12-29

Taxes amount to about 2 per cent of the value of the land.

17-29

Held my wheat in my granary and sold it for 47 cents per bushel.

3-30

I think wheat can be put in and harvested much cheaper than the way I farm. I hire everything done.

10-30

If wheat price is not raised to cost of production, the wheat raisers in the United States will be bankrupted in less than two years' time. Please give us some of those cheap dollars for our products, and O. K.

16-31

My land was partly in corn the preceding year, and it was all prepared with the disc harrow and put in the ground with a press drill.

17-31

I lost about half my crop by hail, otherwise I should have had about 18 bushels per acre.

9-33

The figures I have here given are an average for Stutsman county, and are a trifle higher than my own. The cost of broadcast seeding is about the same as for drilling; for the extra cost of drilling about balances the saving of seed accomplished by using the drill. Wages have been about the same for 1891, 1892 and 1893, but for 1894 they will be a little cheaper, and the cost of raising wheat in 1894 will be a little less than for former years.

My experience in drilling is shown by the following: Some six years ago I took, for a test, a Buckeye press drill and a Van Brunt seeder, and went to work on opposite sides of the field and worked till they met. It was the same soil, the same kind of work, the same amount of seed, and at the same time. On the ground drilled I got one-third more wheat, and sold it for No. 1 hard, while the broadcast seeded wheat sold for only No. 3 northern. I will say that I have but little faith in drilling without the press. You can illustrate this by sowing a few seeds in your garden; cover some of them lightly and press the earth down on the others, and you will see a wide difference in the time required to germinate.

30-36

Owing to the unusual conditions in the fall of 1891, we had no land plowed in the spring of 1892; so plowing had to be done then, when it was exceedingly wet, had to be plowed in strips, and with light teams, on account of miring. Then, the ground being wet and miry, we had to use four horses to a seeder. The cost was enormous.

31-36

I sowed half of my 310 acres of wheat without plowing—using a disc harrow. The crop on this was quite as good as on any land that was plowed.

REMARKS FOR 1891.

13-4

The State ought to do something in the way of inducing breeders of good cattle, both of the beef and milk strain—either put a penalty on scrub stock, or give a bounty for registered animals. I have Cruikshank Shorthorn cattle here, and I find they have paid me 150 per cent. This last crop has put a good many into the notion of mixed farming. Beef and milk will be more largely produced here from this on.

29-5

This land was actually rented for a share of the crop, and the rent I have charged is the money that share of the wheat brought in the market.

6-10

I shipped my wheat by boat to Bismarck, at a cost of 8 cents per bushel.

16-10

Broadcast seeding will produce from two to four bushels more per acre than drilling, in a good wet season. In a dry season, drilled grain will produce much the most. Corn ground and summer-fallow are the best and surest all through.

7-12

My crops are no criterion to judge others by, as I have had exceptionally good crops and big yields.

1-14

My best wheat was hit by hail, so that my average yield was low.

2-15

The high cost this year was mostly due to the high prices for labor; and as I could not get my wheat threshed in the fall, and as spring-threshed grain was of no market value except for feed, I believe I should have been better off if I had never cut my own crop, and had worked for other people during the fall. My wheat threshed in the spring averaged 20 bushels per acre, but if I could have got it threshed in the fall in good shape it would have been near 30 bushels. I did not market it, but fed it, have some of it yet.

20-21

No plowing done. Wheat was drilled in on corn ground and millet stubble.

3-22

Straw was very heavy and tangled, and cutting was retarded very much thereby.

5-22

I seeded about one-half of my 175 acres broadcast, which yielded 40 bushels per acre; the other half that was drilled yielded but 30 bushels.

3-28

I stack my grain from half to three-fourths of a mile from the field in my stack-yard, which increases the expense; and as I stack my straw for winter fodder and bedding, it requires extra help, and therefore more expenditure. I do not burn any of my straw. After using it as winter fodder it is converted into manure. The cost of production is therefore increased in my instance. Some parties who do not stack, or stack in the field and burn the straw, will thereby reduce their expenses. I generally thresh late, after plowing and other farm products are in safety, and hence have to pay high wages for short days. In 1891 I threshed November 4, 5 and 6; paid $2 per day for pitchers, $2.25 for straw stackers. I prepare my seed with great care, using only the largest kernels, which increases the cost over the market value.

19-30

About 40 acres of the 175 was badly cut by hail; otherwise the average yield would have been about 28 bushels.

7-31

This wheat was all drilled in on corn ground, which had been well cultivated the summer before. If we would raise more corn here, we would raise more wheat. Wheat and oats on the ground all the time never will pay.

16-31

Part of this wheat land was summer-fallow, part corn land, and part new breaking. Some was plowed, some was prepared with a disc harrow, and some was not prepared at all—the wheat just drilled in with a press drill.

36-32

The drill is an absolute necessity on lands free from sod. It places the seed in the ground at uniform depth, which is very essential. It requires half a bushel less seed per acre than broadcast seeding. The crop is more satisfactory, and yields more grain per acre.

30-36

The season being unusually wet, the cost of harvesting and threshing was unusual. Being threshed damp, it afterwards heated, and had to be sold at a sacrifice—an average of 40 cents per bushel.

One man submits figures which are so much at variance, in some respects, with the general run of the replies that they are not included in the tables, because they would unduly influence the averages. They are as follows: Acres cultivated in farm, 180; value per acre, $25; acres in wheat in 1893, 130; nothing is given

for rent; plowing and preparing the land for seed, $1.25; seed, one bushel, worth 70 cents; drilling, 40 cents; cutting and binding, including cost of twine, 72 cents; shocking, 20 cents; stacking 90 cents; threshing, including cost of all help, $1.30; storing, 1 cent per bushel, or 8 cents per acre; average yield per acre, eight bushels; cost of hauling to market, three miles, 4 cents per acre; interest on investment and wear and tear on machinery, $10.22 per acre; taxes and subsistence for family and clothing, $2.15 per acre; *total cost, $18.26 per acre.*

His attention was called to the last two items as belonging under the head of rent, but certainly very high for a valuation of $25 per acre, and to stacking and threshing as being considerably higher than most farmers consider reasonable. His answer to this is as follows, viz:

DEAR SIR:—Your circular letter of Feb. 27th, enclosing my memorandum estimate previously sent, as to the cost per acre to raise wheat, including the wear and tear on machinery, interest on money invested in buildings, and including cost of residence, barns, granary, ice house, etc., I have estimated $10.22; in other words, on a farm of 320 acres I have expended in improvements, including cost of land, about $15,000; and I made my estimate in the line of these expenses $10.22 per acre as cost to produce wheat with this outlay.

Now, then, the item of stacking per acre, if grain is stacked; take your lead pencil and figure, two teams hauling from the field to the stack, one stacker, and one pitcher in the field, thus employing four men and two teams. We have been obliged to pay $2 per day for such men; this would figure $8 for labor; and two teams at $3 a day each would be $6 for teams.

Of course my figures are based on what we had to pay, or would have had to pay, providing we did not have our own teams to do the work, and I believe on that basis my figures for stacking per acre are low enough at 90 cents per acre; the average number of acres stacked with that number of men in my experience has never exceeded 12 acres per day. This estimate does not include food for men and teams.

Now, then, the next item of threshing per acre, including cost of all help. A full threshing crew requires twenty-one men for a farmer to pay. He pays the thresher 4 cents per bushel for threshing. Last year we paid these men from $1.50 to $2.00 per day, and the average number of acres threshed per day was about sixty. So at $1.30 per acre, including wages and feed of men, is not extravagant. Of course I include in this the delivering of the grain to the granary.

Now, housing and storing per acre. The waste in shrinkage is low at 8 cents, the price I figure.

The item, cost of marketing per acre, I have placed at 4 cents, but the usual charge for hauling grain from the farm to the elevator with teams, we have always paid 1 cent per mile per bushel. The 4 cents spoken of for marketing, as stated above, means for hauling the grain from the farm to the elevator. My figures are made on the cost of the grain from the time that we commence to prepare the ground until the same is delivered at our local elevators. My figures are based on an experience of nine years, and having kept my books in a businesslike manner, double entry, the profit and loss side has always shown an absolute loss in raising wheat, so much so, that I have withdrawn from the business entirely, with something like $12,000 less money than I had when I commenced farming nine years ago. The only money that I have made in any branch of farming in this country was raising sheep, selling lambs and wool at a very handsome profit. But

since the political complexion of the country changed, and I see the prospect of the McKinley law being repealed, and the other prospect of a "*tariff for revenue only*" law being enacted, which in all cases discriminates against the farmer, I sold my sheep and dropped out of farming with less money than I formerly had, but with the satisfaction of knowing a "damn sight more" than I did when I commenced operations in that line of business, some nine years ago. With a Democratic administration and a "Gold Bug" monopoly, God help the farmers of North Dakota, or any other country. The more carefully every farmer figures the cost of raising any product of the farm, the more he will become convinced of the unjust discrimination against the farmers and in favor of the National banks, Rothchilds and the money aristocracy. I shall be glad at any time to give you minute details of cost, raising any of the cereals.

THE UNITED STATES GOVERNMENT ESTIMATE.

In this connection it is thought best to reprint from the Report of the Statistician of the Department of Agriculture of the United States for March, 1894, the Government estimate of the cost of raising wheat and corn in all the States of the Union, for the year 1893. The table given is made up from data furnished by 30,000 leading farmers. Some of the items of cost for North Dakota are evidently wide of the mark. It will be observed, for instance, that the cost of manuring in North Dakota is given at $1.49 per acre. While land ought to be manured in some way, there is not one farmer in 20 that spends one-quarter of such amount per acre for that purpose. The remarks accompanying the tables are as follows:

EXPENSE OF RAISING WHEAT AND CORN.

In consequence of numerous inquiries relative to the cost of raising our principal cereals coming from both this country and abroad, a careful investigation has been made by the Department of Agriculture as to the cost of raising the staple products, corn and wheat. In view of the present low prices of wheat prevailing throughout the world, the results of this investigation are of unusual economic importance, and it is believed that the time has come to sound a note of warning against the exclusive dependence on these crops in favor of a more diversified culture. With wheat selling at 57 cents and corn at 36 cents a bushel in Chicago, it is impossible to escape the conclusion that a rotation of crops rather than a persistence in exclusive wheat growing would be more profitable to our farmers.

The subjoined tabular statement will show that the interest on the money invested in his land and his time have been included in the actual expense incurred by the farmer in the production of his crops. The following items have been considered in making an estimate of the total cost of raising wheat: Rent of land, ma-

nure, seed and labor, the last of which is subdivided into preparation of soil, sowing, harvesting, threshing, housing and marketing. In the case of corn, the labor consists of preparing the soil, planting, cultivating, gathering, housing and marketing.

COST PER ACRE OF RAISING WHEAT AND CORN.

	Wheat.	Corn.
Rent of land	$ 2.81	$ 3.03
Manure	2.16	1.86
Preparing ground	1.87	1.62
Seed	96	.....
Sowing or planting	37	42
Cultivating	.....	1.80
Harvesting or gathering	1.19	1.22
Threshing	1.20	.....
Housing	37	50
Marketing	76	1.26
Total	$ 11.69	$ 11.71

In the statistician's report for December, 1893, the average farm value of wheat and corn produced per acre was stated as follows: Wheat, $6.16; corn, $8.21. This would show on the face of it a virtual loss to the farmer of $5.53 per acre of wheat and $3.50 per acre of corn for the year 1893. It must be remembered, however, that besides the production of the grain the farmer has the straw of the wheat and the stalks of corn, which have in some sections of the country a feeding value of about $5 per acre, and that while the cost of production was about normal, the price per bushel of wheat was unprecedentedly low, and that of corn much below the average.

The results have been derived from individual estimates made by over 25,000 practical farmers in the case of wheat, and over 28,000 in the case of corn.

The following statement will show in detail the figures of cost of producing corn and wheat by States and sections:

WHEAT.

ESTIMATED COST OF THE PRINCIPAL ITEMS AND TOTAL COST IN THE PRODUCTION OF WHEAT BY STATES AND SECTIONS PER ACRE FOR 1893.

STATES AND SECTIONS.	Rent of Land Per Acre.	Manure.	Prepar'n Ground (Plowing, Harrowing, etc.)	Seed.	Sowing.	Harvesting.	Threshing.	Housing.	Marketing.	Total.
Maine	$3 43	$4 96	$3 39	$2 30	$0 44	$2 21	$2 28	$9 79	$1 21	21 01
New Hampshire	3 74	5 59	3 70	2 12	71	2 49	2 31	80	1 48	22 97
Vermont	3 51	3 78	3 17	2 09	51	2 24	1 80	68	1 24	19 02
Massachusetts	4 08	5 43	3 83	1 80	72	2 58	2 63	96	1 79	23 82
Connecticut	6 31	4 81	4 09	1 50	51	2 83	2 72	83	2 74	26 34
New England	3 52	4 41	3 32	2 16	52	2 27	2 02	73	1 27	20 22
New York	4 56	5 46	3 01	1 64	49	1 49	1 44	60	93	19 52
New Jersey	4 61	6 72	2 50	1 53	53	1 36	1 58	66	80	20 29
Pennsylvania	3 70	5 01	2 77	1 32	46	1 39	1 42	64	89	17 60
Delaware	4 67	4 15	2 40	1 10	57	1 11	1 30	59	70	16 59
Middle	4 01	5 16	2 79	1 40	48	1 40	1 43	63	88	18 18
Maryland	3 64	3 48	2 42	1 11	49	1 17	1 35	58	1 04	15 28
Virginia	2 54	3 83	1 92	1 03	47	93	94	30	92	11 87
North Carolina	2 68	1 77	1 54	91	42	75	73	34	72	9 85
South Carolina	2 46	2 13	1 20	1 05	26	71	89	33	64	9 68
Georgia	2 44	2 13	1 28	94	37	74	88	30	67	9 75
Florida	3 19	1 83	3 81	1 16	29	1 34	72	1 08	1 03	13 45
Alabama	2 35	1 96	1 45	94	90	79	96	34	76	10 45
Mississippi	2 51	2 07	2 69	98	52	1 03	1 14	53	1 01	11 48
Louisiana	2 23	2 42	1 77	1 23	48	1 31	1 32	51	2 25	12 52
Texas	3 13	1 47	1 59	79	39	1 19	1 14	24	78	10 77
Arkansas	2 60	1 56	1 42	84	33	93	85	28	82	9 63
Tennessee	2 66	1 25	1 60	80	35	97	88	23	63	9 36
Southern	2 79	2 09	1 71	93	41	94	95	33	79	10 94
West Virginia	3 27	1 92	2 30	1 12	47	1 18	1 02	41	89	12 58

WHEAT—*Continued.*

STATES AND SECTIONS.	Rent of Land Per Acre.	Manure.	Preparing Ground (Plowing, Harrowing, etc.)	Seed.	Sowing.	Harvesting.	Threshing.	Housing.	Marketing.	Total.
Kentucky	3 31	1 66	1 67	91	39	1 30	4 10	30	70	11 34
Ohio	3 72	1 08	2 46	1 08	45	1 19	1 35	46	73	13 62
Michigan	3 65	2 86	2 73	1 21	35	1 36	1 11	34	82	13 83
Indiana	3 55	2 02	2 03	91	40	1 13	1 33	38	64	12 39
Illinois	3 68	1 76	1 58	96	29	1 13	1 23	28	54	11 45
Wisconsin	2 91	3 09	1 89	1 19	38	1 15	1 11	36	85	12 93
Minnesota	2 26	2 35	1 65	97	38	1 22	1 02	28	61	10 74
Iowa	2 73	1 40	1 37	1 06	24	1 10	1 06	24	54	9 74
Missouri	2 61	1 52	1 52	79	30	1 15	1 08	26	68	9 91
Kansas	2 10	1 27	1 40	66	32	1 23	1 18	30	58	9 04
Nebraska	2 17	1 63	1 39	77	28	1 11	1 07	26	54	9 22
South Dakota	1 52	1 42	1 55	82	31	1 12	97	25	61	8 57
North Dakota	1 63	1 49	1 69	91	42	1 00	1 42	31	74	9 62
Western	2 62	1 85	1 80	92	36	1 18	1 18	32	66	10 89
Colorado	3 08	2 14	2 05	88	39	1 90	1 39	52	1 43	13 78
Utah	5 24	4 44	2 60	1 04	36	1 81	2 04	65	1 54	19 72
Idaho	3 47	1 35	2 31	95	35	1 53	1 63	59	1 95	14 13
Mountain region	3 38	2 70	2 29	95	37	1 78	1 66	58	1 59	15 80
Washington	4 17	3 89	2 18	90	36	1 70	1 81	69	1 37	17 07
Oregon	3 21	2 61	2 14	92	31	1 25	1 36	50	1 20	13 50
California	3 17	2 38	1 96	1 08	31	1 40	1 35	54	1 32	13 51
Pacific	3 31	2 62	2 02	1 03	32	1 41	1 41	55	1 31	13 98
Total	2 81	2 16	1 87	96	37	1 19	1 20	37	76	11 69

CORN.

ESTIMATED COST OF THE PRINCIPAL ITEMS AND TOTAL COST IN THE PRODUCTION OF CORN BY STATES AND SECTIONS PER ACRE FOR 1893.

STATES AND SECTIONS.	Amount Sown Per Acre—Bush.	Rent of Land Per Acre,	Manure.	Preparing Ground.	Planting.	Cultivating.	Gathering.	Housing.	Marketing.	Total.
Maine	2.0	$3 69	$5 10	$4 06	$1 73	$3 27	$3 49	$2 22	$2 25	$25 81
New Hampshire	1.7	5 01	5 49	4 73	1 63	3 77	4 69	2 45	2 71	30 48
Vermont	2.3	3 98	1 12	3 45	1 11	2 72	4 58	1 66	1 98	20 60
Massachusetts	2.0	5 40	6 65	4 30	1 56	3 72	4 92	2 48	2 40	31 43
Connecticut	1.8	5 13	5 88	4 63	1 72	3 99	5 25	2 18	2 92	31 60
New England	2.1	4 76	4 69	4 21	1 51	3 50	4 77	2 13	2 46	28 03
New York	1.9	4 76	6 41	3 17	88	2 39	3 58	1 27	1 61	24 07
New Jersey	1.8	4 31	5 78	2 74	74	2 26	2 48	86	1 40	20 57
Pennsylvania	2.0	3 84	6 29	2 99	69	2 64	2 54	97	1 52	21 48
Delaware	2.0	4 54	3 26	2 37	69	2 22	1 73	61	1 10	16 52
Middle	2.0	4 17	5 99	2 95	74	2 50	2 70	99	1 49	21 53
Maryland	1.8	3 82	3 12	2 53	62	1 91	1 96	1 15	2 05	17 15
Virginia	1.3	2 90	2 22	1 99	53	1 99	1 11	68	1 50	12 92
North Carolina	1 0	3 54	1 90	1 49	49	2 31	68	49	1 01	11 91
South Carolina	1.0	2 46	1 97	1 22	36	2 07	58	39	99	10 04
Georgia	1.0	2 37	1 76	1 26	49	2 17	63	43	1 03	10 14
Florida	1.2	2 29	2 16	2 02	70	2 82	65	60	1 21	12 45
Alabama	1.1	2 44	1 83	1 39	62	2 45	68	51	1 15	11 07
Mississippi	1.1	3 06	2 15	1 42	78	2 49	89	58	1 48	12 76
Louisiana	1.7	4 12	2 02	1 66	55	2 37	82	61	1 42	13 57
Texas	1.2	3 08	1 88	1 61	47	1 93	81	47	1 45	11 70
Arkansas	1.2	3 07	1 75	1 44	60	2 58	91	49	1 59	12 43
Tennessee	1.1	3 35	1 46	1 52	45	2 23	83	52	1 42	11 78
Southern	1.2	3 00	1 89	1 52	53	2 24	80	52	1 31	11 81
West Virginia	1,4	3 86	1 65	2 31	60	2 52	1 65	84	1 68	15 11

CORN—*Continued.*

STATES AND SECTIONS.	Amount Sown Per Acre—Bush.	Rent of Land Per Acre.	Manure.	Preparing Ground.	Planting.	Cultivating.	Gathering.	Housing.	Marketing.	Total.
Kentucky	1.5	4 25	1 49	1 72	33	2 28	1 15	61	1 41	13 24
Ohio	1.5	3 94	1 92	2 49	46	2 08	2 14	80	1 99	15 22
Michigan	1.5	2 22	3 00	2 45	50	1 90	2 71	86	1 46	15 10
Indiana	1.3	3 76	1 87	1 96	38	1 82	1 43	48	1 25	12 95
Illinois	1.4	3 82	1 85	1 50	30	1 50	1 29	40	1 10	11 76
Wisconsin	1.7	3 16	3 59	2 01	44	1 68	2 32	70	1 63	15 53
Minnesota	1.5	2 28	2 86	1 72	37	1 66	1 78	46	1 18	12 31
Iowa	1.7	2 71	1 28	1 44	28	1 33	1 32	34	1 22	9 92
Missouri	1.4	2 91	1 37	1 47	34	1 69	1 06	40	1 36	10 60
Kansas	.9	2 24	1 16	1 24	34	1 14	1 08	38	1 02	8 60
Nebraska	1.5	2 19	1 62	1 38	30	1 16	1 26	40	1 10	9 41
South Dakota	1.4	1 52	1 42	1 50	32	1 31	1 35	33	1 11	8 89
North Dakota	1.3	1 20	1 64	1 78	47	1 18	1 62	47	1 25	9 61
Western	1.4	2 98	1 62	1 59	34	1 53	1 35	45	1 22	11 08
Colorado	1.0	2 40	2 45	1 94	49	1 40	1 55	79	1 56	12 59
Utah	1.5	5 47	4 42	2 85	79	2 69	2 71	1 39	1 71	22 02
Idaho	1.5	3 82	2 50	3 23	1 38	2 98	2 72	1 54	3 20	21 37
Mountain region	1.3	2 61	2 58	2 01	52	1 50	1 64	84	1 59	13 29
Washington	1.2	3 24	3 40	2 10	59	1 52	1 74	92	2 08	15 59
Oregon	1.4	3 59	3 71	2 45	68	2 30	1 59	74	2 12	17 18
California	1.4	4 82	4 30	2 60	69	1 98	2 08	71	1 74	18 92
Pacific	1.4	4 50	4 14	2 53	68	1 98	1 48	73	1 82	18 36
Total	1.4	3 03	1 86	1 62	42	1 80	1 22	50	1 26	11 71

THE WHEAT CROP OF THE WORLD.

[From the Report of the Statistician of the U. S. Department of Agriculture for March, 1894.]

The following table shows the world's production of wheat by counties for the year 1893 as compared with that of 1892 and 1891. The latest official returns for the different countries were used wherever available. In certain cases these official statements are preliminary and may be changed by the corrected estimates. There is little doubt, for instance, that the estimates for Germany and Russia will be reduced by the final returns. Many countries make no official estimate of wheat production, and in such cases the most trustworthy commercial estimates were taken. The bushel used is the Winchester bushel, which has a capacity of 2,150.42 cubic inches. Where quantities were given by weight they were reduced to bushels under the assumption that sixty pounds of wheat make a Winchester bushel. The crops of the countries in the Southern hemisphere are those gathered in November and December, 1892, and in January and February, 1893.

In North America the total production of wheat in 1893 was 447,479,000 bushels, a decrease of nearly 127,000,000 as compared with the preceding year and of 237,000,000 as conpared with 1891. The large extension of the wheat area in Argentina brought up the production of South America from 51,000,000 in 1992 to 82,000,000 in 1893, an increase of 61 per cent. Europe produced 27,000,000 bushels more in 1893 than in the preceding year. Asia's share of the world's wheat production was 346,000,000 bushels as against 290,000,000 in 1892 and 345,000,000 in 1891. Africa's crop was 35,000,000, an increase of 1,000,000 bushels over 1892. Australia's outturn stood at 41,000,000 bushels as compared with 36,000,000 in 1892 and 33,000,000 in 1891. The total world's crop of wheat for 1893 is estimated at 2,385,360,000 bushels, which is less by 7,000,000 than the crop of 1892 and exceeds the crop of 1891 by about 21,000,000 bushels:

THE WHEAT CROP OF THE WORLD.

COUNTRIES.	1891.	1892.	1893.
	Bushels.	Bushels.	Bushels.
United States	611,780,000	515,949,000	396,132 000
Canada :			
Ontario	32,584,000	28,783,000	21,731.000
Manitoba	23,196 000	14,454,000	15,616,000
Rest of Canada	4,941,000	4,945,000	4,000,000
Total Canada	60,721,000	48,182,000	41,347,000
Mexico	12,000,000	10,000,000	10,000,000
Total North America	684,501,000	574,131,000	447,479,000
Argentina	33.000,000	30,000,000	56.750,000
Chili	14,000,000	18,000,000	19.200,000
Uruguay	3,000,000	3,292,000	5,694,000
Total South America	50,000,000	51,292,000	81,644,000
Austria	41,071,000	50,170,000	42,600,000
Hungary	139,278,000	142,013,000	*158,000,000
Croatia and Slavonia	7,000,000	7,984,000	7,315,000
Bosnia and Herzegovina	1,800,000	2,000,000	2,000,000
Belgium	15,560,000	20,748,000	17,500,000
Bulgaria	40,902,000	40,441,000	26,941,000
Denmark	4,666,000	5,000,000	5,000,000
France	220,353,000	310.814,000	277,857,000
Germany	85,750,000	116,215.000	119,748,000
Great Britain	74,401,000	60,407,000	50,800,000
Ireland	2,615,000	2.214,000	1,666,000
Greece	5,678,000	4,000,000	6,500,000
Italy	141,456,000	115,676,000	119,695,000
Netherlands	3,504,000	6,200,000	5,500,000
Portugal	7,000,000	6,100,000	5,000,000
Roumania	45,672,000	60,253,000	59,588,000
Russia	168,846,000	241,579,000	321,497,000
Poland	12,681.000	24,440,000	21,554.000
The Caucasus	74,000,000	71,266 000	60,000,000
Servia	5.000.000	5,500,000	6,000,000
Spain	71,349,000	78,396,000	86,000,000
Sweden	4,341,000	4,560,000	4,006,000
Norway	400,000	400.000	400,000
Switzerland	3,300,000	3,301,000	2,500,000
Turkey in Europe	30,000,000	24,756,000	24.000,000
Cyprus	2,000,000	2,000,000	2,000,000
Total Europe	1,202,620,000	1,406,933,000	1,433,666,000

*The revised Hungarian official estimate just issued makes the Hungarian wheat crop for 1893 158,000,000 bushels, instead of 132,276,000 bushels as was stated in the synopsis of the March report sent out on March 10, 1894.

THE WHEAT CROP OF THE WORLD—*Continued.*

Countries.	1891.	1892.	1893.
	Bushels.	Bushels.	Bushels.
India	256,704,000	266.640,000	266,896,000
Asiatic Turkey	49,000,000	49.000.000	45,000,000
Persia	20,630,000	18,567,000	19,000,000
apan	18,277,000	15,737.000	15,000,000
Total Asia	344,611,000	289,944,000	345,896,000
Algeria	26,184,000	19,399,000	19,000,000
Cape Colony	2,046,000	2,813.000	4,014.000
Egypt	11,140,000	8,252.000	10,000,000
Tunis	4,256,000	4.000,000	2,500.000
Total Africa	43,626,000	34,464,000	35,514,000
New South Wales	3,649,000	3,964,000	6,817,000
Victoria	12,751,000	13.679,000	14.815,000
South Australia	9.399,000	6,436,000	9,240,000
Western Australia	465.000	296,000	429,000
Tasmania	643,000	938,000	1,019,000
New Zealand	5,724,000	10,258,000	8,378,000
Queeensland	208,000	392,000	463.000
Total Australia	32,839.000	35,963,000	41,164.000
RECAPITULATION BY CONTINENTS:			
North America	684,501,000	574,131,000	447,479,000
South America	50,000,000	51,272,000	81,644.000
Europe	1,208.620,000	1.406,933,000	1.433,666,000
Asia	344.611,000	289,944,000	345,896,000
Africa	43,626,000	34,464,000	35,514.000
Australia	42,839,000	35,963,000	41,161,000
Grand Total	2:364.197,000	2,392,727,000	2,385.360,000

INDUSTRIAL STATISTICS.

[The following eleven pages are re-printed from the Special Report for 1893, issued last January. Considerable additional information has been gathered, both for 1893 and 1894, which it has been impossible for want of time to put into shape for publication. The investigation into the cost of producing wheat, which was undertaken this year for the first time, has required for its completion all the time that could be spared from other work in the office; and as this and the Indistrial Statistics could not both be completed, the wheat investigation was deemed much more important, and was therefore carried through, to the necessary neglect of Industrial Statistics. There is added to the tables published last January the foot-note on coal production at the end of the tables.]

The following tables embrace a portion of the work of both 1892 and 1893 done in compliance with section two of chapter 115 of the laws of 1891. The figures for the two years are placed side by side to facilitate comparison.

It will be observed that in each table a larger number of establishments answered the Commissioner's schedule in 1893 than in 1892—the increased number of answers extending to nearly all industries. The only noticeable decrease is in creameries and cheese factories, which is occasioned by nearly all of such establishments in the State going out of business. In the matter of brick yards all the important plants in the State, with one exception, made proper returns in 1893; and in coal mines it is believed that all the principal mines have reported—which enables full and complete statistics to be given regarding this growing industry. The great increase shown in these industries, as in gas and electric lighting, boiler factories, and to some extent printing establishments, is due to a greater extent to the increased willingness of the proprietors to supply the data asked than to any increase in the business represented—though there has been an important increase especially in the coal mining industry.

There are some few industries which are so inextricably mixed up with retailing goods made in larger factories that the figures here presented are not of much value. This is especially the case with harness shops, while it is also observable in the returns from some other lines of business. Twenty or thirty years ago every town or village had its thriving shoe shop, with several employes, doing custom work for the communities; but now one is seldom seen. The large factory has driven the small shoemaker out of business, so that repair shops are all that can be found in the smaller cities and towns—or in fact anywhere in the West. The old-time harness shop seems doomed to follow the shoe shop. Most country harness makers are now more nearly described as retail merchants, selling factory made har-

ness while still doing a small amount of custom work. Tailor shops are similarly affected by the ready-made clothing houses, and many tailors now handle ready-made clothing themselves. Similar statements may probably be made of boiler factories and machine shops—most of them now being essentially repair shops. And on the whole, there cannot be said to be more than six out of the eleven industries named in the tables that justify continuing these reports on industrial statistics. The further development of the State will, however, certainly introduce many other industries, and greatly extend those that are permanently established.

It will be observed that no figures are given for either coal mines or saw mills under either private firms or corporations, but they are grouped together under the head of "aggregates for both private firms and corporations." This is done to avoid disclosing the business of any one firm, which is forbidden by the section of law above referred to.

The larger or smaller total capital invested in 1893 than in 1892, or the larger or smaller value of materials used or total output of an industry, does not necessarily imply an increase or decrease of business values, as it may result from a larger or smaller number of extensive plants making returns than had been the case the former year; and a real comparison can only be made by comparing the answers of plant by plant for the two years. Time has not permitted this to be done. But for flouring mills, creameries, and saw mills, the figures in the tables may be considered a fair index of the business—the result showing a decreased business. With flouring mills this decrease is partially accounted for by the fact that ten mills could make returns in 1893 for only six months, while for 1892 most of the same mills reported their business for the entire year. The cause of failure to obtain the figures for the other six months in 1893 was change in ownership.

CAPITAL INVESTED—Private Firms.

INDUSTRY.	No. of Establ'hm'ts.		No. of Partners.		Amount Invested.		Average Amount Per Establishment.		Average Amount Per Partner.	
	1892	1893	1892	1893	1892	1893	1892	1893	1892	1893
Boiler factories, foundries and machine shops	2	1	3	2	$ 9,500 00	$ 7,500 00	$ 4,750 00	$ 7,500 00	$ 3,166 66	$ 3,750 00
Brick yards, potteries and lime kilns	6	6	6	14	27,500 00	67,500 00	4,583 33	11,250 00	4,583 33	4,821 43
Cigar factories	10	12	12	13	9,500 00	10,650 00	955 00	887 50	795 83	819 23
Coal mines	....	....	....	....	.....	.....	.....	.....	.....	.....
Creameries and cheese factories	5	3	7	4	11,950 00	6,450 00	2,390 00	2,150 00	1,707 14	1,612 50
Electric lights and gas	....	....	....	....	.....	.....	.....	.....	.....	.....
Flouring mills	14	13	24	23	290,000 00	219,500 00	20,714 71	16,884 62	12,083 33	9,543 48
Harness shops	29	33	34	42	70,700 00	125,500 00	2,437 93	3,803 03	2,079 41	2,988 10
Printing, publishing and bookbind'g establishm'nts	51	56	71	71	164,750 00	362,302 00	3,230 39	4,601 78	2,320 42	3,694 39
Saw mills	....	....	....	....	.....	.....	.....	.....	.....	.....
Tailor shops	12	13	13	14	14,950 00	18,200 00	1,245 83	1,400 00	1,150 00	1,300 00
Totals	135	144	176	192	$ 609,200 00	$ 768,802 00	$ 4,512 59	$ 5,338 90	$ 3,461 36	$ 4,000 18

CAPITAL INVESTED—Corporations.

Industry.	No. of Establish'ts.		No. of Stockh'ld'rs.		Amount Invested.		Average Amount Per Establishment.		Average Amount Per Stockholder.	
	1892	1893	1892	1893	1892	1893	1892	1893	1892	1893
Boiler factories, foundries and machine shops	....	....	....	....	$....	$....	$....	$.... ..	$....	$.... ....
Brick yards, potteries and lime kilns	....	....	....	....	.....	.....	.....	.....	.....	.....
Cigar factories	....	....	....	....	.....	.....	.....	.....	.....	.....
Coal mines	....	....	...	....	.....	.....	.....	....	.....	.....
Creameries and cheese factories	3	....	279	....	6,800 40	.....	2,280 00	.....	24 52	.....
*Electric lights and gas	2	3	5	16	30,000 00	210,000 00	15,000 00	70,000 00	6,000 00	13,125 00
†Flouring mills	9	14	35	51	636,000 00	650,000 00	70,666 66	46,428 57	18,171 43	12,745 10
Harness shops	....	....	....	....	.....	.....	.....	.....	.....	.....
Printing, publishing and bookb'ding establishm'ts	4	7	25	52	54,100 00	81,800 00	13,600 00	11,685 71	1,276 00	1,573 08
Saw mills	....	....	....	...	.....	.....	.....	.....	.....	.....
Tailor shops	....	....	. ..	....	.....	.....	.....	.....	.....	.....
Totals	18	26	344	128	$ 727,240 00	$1,091,800 00	$40,402 22	$41,992 31	$ 2,114 07	$ 8,529 60

*One establishment which in 1863 furnished both kinds of light, and returned separate reports for each, is counted as two plants.
†Two corporations owning and operating four mills in 1892 are counted as four establishments, and two corporations owning and operating twelve mills in 1893 are counted as twelve establishments.

CAPITAL INVESTED—Aggregate for Both Private Firms and Corporations.

INDUSTRY.	No. of Establishm'ts.		No. of Partners or St'kh'ldrs		Amount Invested.		Average Amount Per Establishment.		Average Amount Per Partner or Stockholder.	
	1892	1893	1892	1893	1892	1893	1892	1893	1892	1893
Boiler factories, foundries and machine shops	2	1	3	2	$ 9,500 00	$ 7,500 00	$ 4,750 00	$ 7,500 00	$ 3,166 66	$ 3,750 00
Brick yards, potteries and lime kilns	6	6	6	14	27,500 00	67,500 00	4,583 33	11,250 00	4,583 33	4,821 43
Cigar factories	10	12	12	13	9,550 00	10,650 00	955 00	887 50	795 83	819 23
Coal mines	3	5	3	10	5,600 00	95,000 00	1,866 66	19,000 00	1,866 66	9,500 00
Creameries and cheese factories	8	3	286	4	18,790 00	6,450 00	2,348 75	2,150 00	65 70	1,612 50
*Electric lights and gas	2	3	5	16	30,000 00	210,000 00	15,000 00	70,000 00	6,000 00	13,125 00
†Flouring mills	23	27	59	74	926,000 00	869,500 00	40,260 87	32,203 70	15,694 92	11,750 00
Harness shops	29	33	34	42	70,700 00	125,500 00	2,437 93	3,803 03	2,079 41	2,988 10
Printing, publishing & book b'nd'g establishments.	55	64	96	123	219,150 00	344,102 00	3,984 54	5,376 59	2,282 81	2,797 58
Saw mills	2	3	3	8	4,700 00	106,200 00	1,566 66	35,400 00	1,566 66	13,275 00
Tailor shops	12	13	13	14	14,950 00	18,200 00	1,245 83	1,400 00	1,150 00	1,400 00
Totals	153	170	520	320	$1,336,440 00	$1,860,602 00	$ 8,734 90	$10,944 72	$ 2,570 08	$ 5,814 38

*One establishment which in 1893 furnished both kinds of light and returned separate reports for each is counted as two plants.

†Two corporations owning and operating four mills in 1892 are counted as four establishments, and two corporations owning and operating twelve mills in 1893 are counted as twelve establishments.

STOCK OR MATERIALS USED—VALUES—PRIVATE FIRMS.

INDUSTRY.	No. of Est'bl'm'ts.		Total Value of Materials Used		Average Value Per Establishment	
	1892	1893	1892	1893	1892	1893
Boiler factories, foundries and machine shops	2	1	$ 4,030 00	$ 1,044 00	$ 2,015 00	$ 1,044 00
Brick yards, potteries and lime kilns	8	7	10,329 00	12,153 50	1,291 12	1,736 21
Cigar factories	12	14	18,620 37	27,280 30	1,551 70	1,948 59
Coal mines						
Creameries and cheese factories	6	2	11,534 20	811 00	1,922 37	405 50
Electric light and gas works						
Flouring mills	14	13	677,747 60	466,377 00	48,410 54	35,875 15
Harness shops	32	37	80,964 07	60,410 00	2,530 13	1,632 70
Printing, publishing and bookbinding establishments	51	61	49,437 96	55,849 00	969 37	915 56
Saw mills	3	2	1,400 00	2,000 00	466 67	1,000 00
Tailor shops	16	13	27,011 47	24,441 00	1,688 22	1,880 08
Totals	144	150	$ 881,074 67	$ 650,365 80	$ 6,118 57	$ 4,335 77

STOCK OR MATERIALS USED—VALUES—Corporations.

INDUSTRY.	Number of Establishments.		Total Value of Materials Used.		Average Value per Establishment.	
	1892	1893	1892	1893	1892	1893
Boiler factories, foundries and machine shops	1	2	$ 1,200 00	$ 44,686 04	$ 1,200 00	$ 22,343 02
Brick yards, potteries and lime kilns	.....	.....	.....	.....	.....	.....
Cigar factories	.....	.....	.....	.....	.....	.....
Coal mines	.....	.....	.....	.....	.....	.....
Creameries and cheese factories	3	.....	17,584 93	.....	5,861 64	.....
Electric light and gas works	2	4	4,262 00	23,045 32	2,131 00	5,761 33
Flouring mills	9	13	1,308,779 79	744,282 00	145,419 98	57,252 46
Harness shops	.....	.....	.....	.....	.....	.....
Printing, publishing and bookbinding establishments	6	6	19,147 95	14,413 08	3,191 32	2,402 18
Saw mills	1	1	110,000 00	24,525 00	110,000 00	24,525 00
Tailor shops	.....	.....	.....	.....	.....	.....
Totals	22	26	$ 1,460,974 67	$ 850,951 44	$ 66,407 94	$ 32,728 90

STOCK OR MATERIALS USED—VALUES—AGGREGATE FOR BOTH PRIVATE FIRMS AND CORPORATIONS.

INDUSTRY.	Number of Establishments.		Total Value of Materials Used.		Average Value Per Establishment.	
	1892	1893	1892	1893	1892	1893
Boiler factories, foundries and machine shops	3	3	$ 5,230 00	$ 15,730 04	$ 1,743 33	$ 15,243 35
Brick yards, potteries and lime kilns	8	7	10,329 00	12,153 50	1,291 12	1,736 21
Cigar factories	12	14	18,620 37	27,280 30	1,551 70	1,948 69
Coal mines	.....	.....	.....	.....	.....	.....
Creameries and cheese factories	9	2	29,119 13	811 00	3,235 46	405 50
Electric light and gas works	2	4	4,262 00	23,045 32	2,131 00	5,761 33
Flouring mills	23	26	1,986,527 39	1,210,659 00	86,370 76	46,563 81
Harness shops	32	37	80,964 07	60,410 00	2,530 13	1,632 70
Printing, publishing and bookbinding establishments	57	67	68,585 91	70,262 08	1,203 26	1,048 69
Saw mills	4	3	111,400 00	26,525 00	27,850 00	8,841 67
Tailor shops	16	13	27,011 47	24,411 00	1,688 22	1,880 08
Totals	168	176	$ 2,342,049 34	$ 1,501,317 24	$ 13,940 77	$ 8,530 21

GOODS MADE OR WORK DONE—BY INDUSTRIES—Private Firms.

INDUSTRY.	Number of Establishments		Selling Value of Product		Average Value per Establishment	
	1892	1893	1892	1893	1892	1893
Boiler Factories, Foundries and Machine Shops	2	1	$ 8,750 00	$ 2,800 00	$ 4,375 00	$ 2,800 00
Brick Yards, Potteries and Lime Kilns	8	7	33,599 00	58,919 00	4,199 88	8,417 00
Cigar Factories	12	14	41,181 00	60,387 50	3,431 75	4,313 39
Coal Mines	.....	.....	....	.....	.....	.....
Creameries and Cheese Factories	8	3	19,530 50	4,710 00	2,441 31	1,570 00
Electric Lights and Gas	.....	.....	.....	.....	.....	.....
Flouring Mills	14	12	934,959 30	616,901 00	67,782 81	54,408 42
Harness Shops	32	37	108,850 50	110,947 00	3,401 58	2,998 57
Printing, Publishing and Bookbinding Establishments	54	66	168,002 30	219,047 00	3,111 15	3,318 89
Sawmills	.....	.....	.....	.....	.....	.....
Tailor Shops	15	13	64,310 30	47,196 00	4,287 35	3,630 46
Totals	145	153	$ 1,379,182 90	$ 1,120,907 50	$ 9,511 61	$ 7,326 19

GOODS MADE OR WORK DONE—BY INDUSTRIES—Corporations.

INDUSTRY.	Number of Establishments.		Selling Value of Product.		Average Value per Establishment.	
	1892.	1893.	1892.	1893	1892.	1893.
Boiler Factories, Foundries and Machine Shops	.....	2	$.....	$ 112,917 65	$.....	$ 56,458 82
Brick Yards, Potteries and Lime Kilns	.....	.....	.....	.....	.....	.....
Cigar Factories	.....	.....	.....	.....	.....	.....
Coal Mines	.....	.....	.....	.....	.....	.....
Creameries and Cheese Factories	3	.....	27,491 96	.....	9,163 99	.....
Electric Lights and Gas	2	4	9,575 00	75,326 50	4,787 50	18,831 63
Flouring Mills	9	13	1,624,391 26	1,053,364 00	180,477 92	81,028 00
Harness Shops	.....	.....	.....	.....	.....	.....
Printing, Publishing and Bookbinding Establishments	4	7	65,642 00	70,842 00	16,410 50	10,120 28
Saw Mills	.....	.....	.....	.....	.....	.....
Tailor Shops	.....	.....	.....	.....	.....	.....
Totals	18	26	$ 1,727,010 22	$ 1,312,450 15	$ 95,945 01	$ 50,478 85

GOODS MADE OR WORK DONE—BY INDUSTRIES—Aggregates for Both Private Firms and Corporations.

INDUSTRY	Number of Establishments.		Selling Value of Products.		Average Value per Establishment.	
	1892	1893	1892	1893	1892	1893
Boiler Factories, Foundries and Machine Shops	2	3	$ 8,750 00	$ 115,717 65	$ 4,375 00	$ 38,592 55
Brick Yards, Potteries and Lime Kilns	8	7	33,599 00	58,919 00	4,199 88	8,417 00
Cigar Factories	12	14	41,181 00	60,387 50	3,431 75	4,313 39
Coal Mines	4	7	4,905 50	43,535 00	1,226 87	6,219 29
Creameries and Cheese Factories	11	3	47,022 46	4,710 00	4,274 77	1,570 00
Electric Lights and Gas	2	4	9,575 00	75,326 50	4,787 50	18,831 63
Flouring Mills	23	25	2,559,260 56	1,670,265 00	111,272 19	66,810 60
Harness Shops	32	37	108,950 50	110,947 00	3,401 58	2,998 57
Printing, Publishing and Bookbinding Establishments	58	73	233,644 30	289,889 00	4,028 35	3,971 08
Saw Mills	4	3	163,672 00	42,774 00	40,918 00	14,258 00
Tailor Shops	15	13	64,310 30	47,196 00	4,287 35	3,630 46
Totals	171	189	$ 3,274,770 62	$ 2,519,666 65	$ 19,150 71	$ 13,331 57

Note. It is thought best to add a few lines regarding the coal mining industry. Seven mines reported for the year ending June 30, 1893, and five mines for the year ending June 30, 1894. Four of these made reports for both years. These four mines for 1893 returned 16,800 tons, worth at the mines $21,100; the same four mines for 1894 returned 25,500 tons, worth at the mines $30,675. For 1893, three mines reported that failed to report in 1894, which returned in 1893 22,060 tons, worth at the mines $22,434. For 1894, one new mine reported 300 tons, worth $300.

The average price of coal at the mines for 1893 was $1.12 per ton, and for 1894, $1.19 per ton, one extensive mine that produced coal at the cheapest rate failing to report for 1894. The average price of coal at the mines for the mines that reported both years was $1.26 per ton for 1893, and $1.20 per ton for 1894.

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